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PERSONAL.

Mr. C. H. Reynolds has been appointed City Engineer of Fort Dodge, Ia., and Mr. W. L. Pray, Superintendent of Water-Works.

Mr. Frank H. Jones, Mining Engineer, of Leadville, Colo., was recently married to Miss Florence H. Caldwell, of Cleveland, O.

Mr. James C. Hallstead, Civil Engineer, of New York city, was married on April 10 to Miss Anne Dillingham, of the Borough of Brooklyn.

Mr. A. G. Wells has been appointed Acting Chief Engineer of the Texas Midland Ry., succeeding Mr. M. Duvall, Chief Engineer, resigned.

Mr. Chas. Worthington, Assoc. M. Am. Soc. C. E., has removed his offices from 518 Empire Building, Pittsburg, Pa., to 331 Fourth Ave., that city.

Mr. H. B. Merriam has been appointed Division Engineer of the Chicago Great Western Ry. at Dubuque, Ia., succeeding Mr. F. S. Hunt, resigned.

Mr. Carl Bedell, who has been acting as Assistant City Engineer of Nebraska City, Neb., has been appointed Electrician of the electric light company in that city.

Mr. J. G. Reeves, formerly Vice-President of the Columbus, Wellston & Southern Ry., has been elected President of that company, succeeding Mr. W. H. Stevenson, deceased.

Mr. James M. Barr, until recently Third Vice-President of the Atchison, Topeka & Santa Fe Ry., has been elected First Vice-President and General Manager of the Seaboard Air Line.

Mr. Frank N. Kondolf, Secretary of the Standard Sewer Pipe Co., of Rochester, N. Y., has resigned to become Manager of the American Sewer Pipe Co., with office in Pittsburg, Pa.

Mr. Charles Currey, formerly General Superintendent of the Cleveland Electric Ry., has been appointed General Manager of the Toledo & Monroe Ry., now building between those points.

Mr. Edwin Ball, for several years General Manager of the Minnesota Iron Co., has been selected for Manager of all the iron mines of the Tennessee Coal, Iron & R. R. Co., and will assume the duties of that office about May 1.

Capt. W. B. Gordon, Ordnance Department, U. S. A., has been appointed Professor of Natural and Experimental Philosophy at the United States Military Academy at West Point, N. Y., succeeding the late Prof. Peter S. Michie.

Mr. E. B. Cushing, General Manager of the Houston, East & West Texas Ry., has been appointed Engineer of Maintenance of Way of the Atlantic system of the Southern Pacific Co., to succeed Mr. J. T. Mahl, deceased.

Mr. J. C. Hain, Assistant Engineer of Bridges and Buildings of the Chicago, Milwaukee & St. Paul R. R., has been appointed Engineer of Permanent Construction of Bridges and Buildings, with headquarters at Chicago, Ill., succeeding Mr. W. A. Rogers, resigned.

Mr. George R. Scrugham, for ten years General Superintendent of the Creaghead Engineering Co., of Cincinnati, O., has been elected President and General Manager of the Cincinnati & Eastern Electric Ry. of Cincinnati, which company will buld a line eastward from that city.

Prof. Charles P. Turner, M. E., who has been connected with the International Correspondence Schools, Scranton, Pa., since 1895, has resigned to accept a position with the Garrett-Cromwell Engineering Co., Cleveland, O. Professor Turner will be succeeded as Principal of the School of Mechanical Engineering by Prof. A. B. Clemens.

Mr. J. W. Bradley, Assoc. M. Inst. C. E., who for the past six years has been Borough Engineer of Wolverhampton, has been appointed City Engineer of Westminster, London. Mr. Bradley was for six years on the staff of the Borough Engineer of Burnley, and prior to his appointment to Borough Engineer of Wolverhampton, was Borough Engineer of Nelson.

Mr. Charles M. Darling, formerly of the firm of Byrne & Darling, Civil Engineers, of White Plains, N. Y., has formed a partnership with his brother, Mr. Oscar Darling, Civil Engineer, of Babylon, N. Y., and will open an office in Mineola, N. Y., about May 1, under the firm name of Charles M. Darling & Brother, to do consulting work and surveying. The firm will have branch offices at Hicksville and Amityville.

Messrs. Rudolph Hering, M. Am. Soc. C. E., and Geo. W. Fuller, Assoc. M. Am. Soc. C. E., have formed a partnership as Consulting Engineers and will have after May 1 offices at 100 William St., New York city, where Mr. Hering has been located for several years. As most of our readers are aware, Mr. Hering has had a wide range of consulting practice in the various phases of water supply and sewerage work, while Mr. Fuller has devoted himself to water and sewage purification and allied subjects. For a number of years Mr. Fuller was in charge of the studies of water and sewage purification carried on by the Massachusetts State Board of Health at Lawrence, Mass. He then had charge, successively, of the water purification investigations at Louisville, Ky., and Cincinnati, after which he opened an office for consulting practice in New York.

Mr. A. L. Schultz has been appointed Manager of the newly-organized Pittsburg District of the American Bridge Co., as previously announced, with Mr. C. W. Bryan, as Engineer in Charge of Contracting and Chairman of the Board, and Mr. Richard Khuen, Jr., M. Am. Soc. C. E., Chief Engineer. Included in the District are the Keystone branch, Mr. J. W. Walker, M. Am. Soc. C. E., Manager, Mr. J. K. Lyons, M. Am. Soc. C. E., Engineer; New Columbus branch, Mr. W. N. Cleveland, Manager, Mr. J. Braune, Assoc M. Am. Soc. C. E., Engineer; Pittsburg branch, Mr. J. W. Walker, M. Am. Soc. C. E., Manager, Mr. J. G. Spielman, Assoc. M. Am. Soc. C. E., Engineer; Shiffler branch, Mr. J. W. Walker, Manager, Mr. P. Bryn, Engineer; Youngstown branch, Mr. E. M. Scofield, Assoc. M. Am. Soc. C. E., Manager and Engineer; Wrought Iron Works branch, Mr. John R. Reed, Manager, Mr. L. X. Basford, Engineer. Mr. L. J. Affelder, Jun. Am. Soc. C. E., is Contracting Engineer in Charge of Structural Contracting, and Mr. A. J. List, Assistant Mechanical Engineer.

Mr. H. Fernstrom, heretofore Chief Engineer of the Chicago Great Western Ry., has been appointed Principal Assistant Engineer of the New York Central & Hudson River R. R., with headquarters at Grand Central Station, New York city. Mr. Fernstrom was born in Orebro, Sweden, in 1857, and was educated at the Orebro Technical School and Stockholm Institute of Technology. He entered railway service in 1873 as a draftsman in the Mechanical Department of the Stockholm, Westeras & Perzslagernas Ry., and remained with that road until 1875, when he established himself as an Engineer of iron works and railways in Sweden. In 1880 he came to this country and was employed in an engineer's office in Boston, Mass. The following year he had charge of the preliminary surveys for the Minnesota & St. Louis Ry., and was made Assistant Engineer of the Minnesota Central road in 1882. In 1883 he was appointed Topographer of the St. Paul & Chicago Short Line Ry. A year later he became Assistant Engineer of the Minnesota & Northwestern R. R. and St. Paul Bridge, and in June, 1885, was appointed Chief Engineer of that road, which position he held until September, the year following, when he became Chief Engineer of the Chicago, St. Paul & Kansas City Ry., now operated by the Chicago Great Western Ry.

OBITUARY.

Mr. Louis Beck, formerly a contractor and builder in New York city, died recently in El Paso, Tex.

Mr. John W. Branning, President of the Wellington & Powellsville R. R., died at his home in Edenton, N. C., on March 19, at the age of 54 years.

Mr. John R. Brownell, retired President of Brownell & Co., boiler and engine manufacturers, of Dayton, O., died on March 27, aged 61 years.

Mr. John Paul Gordon, a shipbuilder, manufacturer and merchant, of Franklin, Me., died at his home in that city on April 11 of heart disease, aged 62 years.

Mr. George Freer Morris, Civil Engineer, died at his home in Pembroke, Ont., on April 1, of pneumonia. Mr. Morris was born in 1864, and was educated in Pembroke. In 1884 he joined the engineering staff of the Canadian Pacific R. R., and in 1890 completed the construction of the Pembroke Southern Ry. During the winter of 1899 and 1900 he was in charge of the surveys between Fort William and Rat Portage for the double tracking of the Canadian Pacific R. R.

Sir Edward William Watkins, ex-Chairman of the South-eastern Ry., the Manchester, Sheffield & Lincolnshire Ry., and the Metropolitan & East London Ry., died April 14, aged 82 years. In 1845, Sir Edward was elected Secretary of the Trent Valley R. R. From this post he came by successive stages to be General Manager of the London & Northwestern Co., Director and Chairman of the Manchester, Sheffield & Lincolnshire Ry., President of the Grand Trunk Ry. of Canada, Chairman of the South Eastern, and Director of the Great Western & Great Eastern companies.

Mr. William M. Levering, Civil and Mechanical Engineer, of Philadelphia, Pa., member of the firm of Levering & Garrigues, Engineers and Contractors, of New York and Philadelphia, died at Hatboro, Pa., on April 6, of Bright's disease. Mr. Levering was for a number of years associated with Mr. Joseph M. Wilson, Engineer of Bridges and Buildings of the Pennsylvania R. R., and subsequently with the firm of Wilson Bros. & Co., Architects, of Philadelphia. For the past 15 years he has been identified with the structural steel business as a member of the firm of Levering & Garrigues, and has been employed as Consulting Engineer on a number of important works.

Mr. Robert Cochran Bacot, Civil Engineer, died at his home in East Orange, N. J., on April 12. He was born in Charleston, S. C., in 1818, and graduated from the College of Charleston as a Civil Engineer. After graduating he engaged in railroad engineering in New Hampshire, the Carolinas, Tennessee and Kentucky. In 1838 he moved to Jersey City, N. J., and two years later was appointed City Surveyor. In 1857 he was elected Registrar and subsequently Chief Engineer and Superintendent of the Jersey City water-works. From 1886 to 1890 Mr. Bacot was Chairman of the New Jersey Committee of the Joint Boundary Commission of the States of New York and New Jersey to determine the boundary between those states in the Hudson River, New York Bay and Arthur Kill.

Mr. Aldace F. Walker, Chairman of the Board of Directors of the Atchison, Topeka & Santa Fe R. R., died at his home in New York city on April 14. Mr. Walker was born in Rutland, Vt., in 1842, and was educated at the Kimball Union Academy, at Meriden, N. H., and at Middlebury College, Vt. From 1887 to 1889 he served on the Interstate Commerce Commission and for the following three years was Chairman of the Interstate Commerce Ry. Association, and of its successor, the Western Traffic Association, at Chicago. In 1893 he was elected Chairman of joint committee composed of presidents and vice-presidents of the railroads belonging to the Trunk Line and Central Traffic Associations. The following year he was appointed Receiver of the Atchison, Topeka & Santa Fe Ry., and two years later was elected Chairman of the Board of Directors of the reorganized company, which office he held at the time of his death.

Prof. Henry A. Rowland, of the Johns Hopkins University and one of the most noted physicists in the country, died in Baltimore on April 16. He was born in Honesdale, Pa., Nov. 27, 1848; graduated as a Civil Engineer from the Rensselaer Polytechnic Institute in 1870, and spent some time in railway engineering. He was an instructor in Wooster University in 1871-2; and instructor and Assistant Professor of Physics, in 1872-75, at the Rensselaer Polytechnic Institute. In 1875 he went abroad and studied under Helmholtz in Berlin, and inspected the physical laboratories of the Continent. In 1876 he was invited to accept the chair of physics in the Johns Hopkins University, and has held that place since. As a consulting engineer he was connected with the development of the original electrical plant at Niagara Falls; and among his numerous inventions is a multiplex telegraph instrument and a machine for ruling on glass and making refraction gratings. Professor Rowland was a member of the Paris Electrical Congress of 1881; a member of the international commission for establishing electricial units; President of the section of physics of the American Association for the Advancement of Science, on several occasions, and in 1884 he was awarded the Rumford medal for his researches in light and heat by the American Academy of Arts and Sciences, and also received the Draper and Mattenci medals for other discoveries. He was a member of many scientific societies.

ENGINEERING SOCIETIES.

COMING MEETINGS.

CONNECTICUT CIVIL ENGINEERS' AND SURVEYORS' ASSOCIATION.
April 20. Spring meeting at New Haven, Conn., Secy., G. H. Crandall, New London, Conn.

AMERICAN RAILWAY ASSOCIATION.
April 24. Annual meeting in New York city. Secy., W. F. Allen, 24 Park Place, New York city.

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.
April 24 and 25. Annual meeting at Boston, Mass.

NATIONAL ELECTRIC LIGHT ASSOCIATION.
May 21 to 23. Annual meeting at Niagara Falls, N. Y. Secy., Geo. F. Porter, 120 Liberty St., New York city.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 28 to 31. Spring meeting at Milwaukee, Wis. Secy., F. R. Hutton, 12 West 31st St., New York city.

NATIONAL ASSOCIATION OF MANUFACTURERS.
June 4 to 6. Annual meeting at Detroit, Mich. Secy., E. P. Wilson, Chamber of Commerce, Cincinnati, O.

CANADIAN ELECTRICAL ASSOCIATION.
June 19 to 21. Annual meeting at Ottawa, Ont. Secy., C. H. Mortimer, Confederation Life Bldg., Toronto, Can.

ASSOCIATION OF RAILWAY TELEGRAPH SUPERINTENDENTS.
June 19. Annual meeting at Boston, Mass. Secy., P. W. Drew, Wis. Cent. Ry., Milwaukee, Wis.

AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 19. Annual convention at Saratoga, N. Y. Secy., Jos. W. Taylor, 667 Rookery Bldg., Chicago, Ill.

MASTER CAR BUILDERS' ASSOCIATION.
June 24. Annual convention at Saratoga, N. Y. Secy., Jos. W. Taylor, 667 Rookery Bldg., Chicago, Ill.

ENGINEERS' CLUB OF ST. LOUIS.—At the meeting held on April 3 a paper on "Treatment of Feed Water for Boilers," was read by Mr. Louis Bendit.

CONNECTICUT CIVIL ENGINEERS' AND SURVEYORS' ASSOCIATION.—The spring meeting of the association will be held in New Haven, Conn., on April 20. The opening address will be given by President Hadley, of Yale University. Following President Hadley's remarks there will be a lecture, illustrated by the stereopticon, by Mr. Wm. B. Bailey, Engineer of the Eastern Expanded Metal Co., and Mr. Morrill Watson, Manager of the New York Expanded Metal Co., on "Expanded Metal and Its Uses in Concrete Construction." After this there will be an illustrated lecture on "The Power Plant of the Niagara Falls Power Co.," by a representative of the Westinghouse Electric & Mfg. Co. Later in the day a visit will be made to the Grand Ave. power station of the Fair Haven & Westville R. R. Co., where two 750-HP. generators are being installed by the General Electric Co.

WESTERN SOCIETY OF ENGINEERS.—The program for the remainder of the meetings this season is as follows:

April 17.—"The Manufacture and Testing of Hydraulic Cements," S. B. Newberry; "Bascule Bridges," G. A. M. Liljencrantz and F. L. Hill.

May 1.—"A Single Method of Determining the Conditions of Combustion, with Suggestions on Working Furnaces," A. Bement; "Boiler Tests with Illinois Coals," L. B. Breckenridge; "Effects of Splicing and Riveting," G. S. Morison.

May 8.—"Experiments with High Frequency Electrical Apparatus," A. V. Abbott, Chief Engineer of the Chicago Telephone Co.

May 15.—"A Central Terminal Station for Chicago," R. C. Sattley; "The Water-Works System of Chicago," T. H. Spengler.

June 5.—"Fireproof Elevator Construction," James Macdonald; "Concrete Caisson Foundations for Buildings," J. H. Sutter.

June 12.—"An Engineer's Experiences in South America and in High Altitudes," P. H. Ashmead.

June 19.—"Modern Practice in Bridge Shop Work," W. H. Pratt.

June 26.—"The Forester as an Engineer," Prof. B. E. Fernow.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Apr. 18.	Paving ($65,000),	Louisville, Ky.	Apr. 18
Apr. 18.	Sewers ($100,000),	Kansas City, Mo.	Apr. 18
Apr. 19.	Water meters,	Schenectady, N. Y.	Apr. 18
Apr. 19.	Pier, etc.,	New York, N. Y.	Apr. 11
Apr. 20.	Electric plant,	Rocky Mount, N. C.	Apr. 11
Apr. 20.	Asphalt paving,	Washington, D. C.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 20.	Sewers,	Washington, D. C.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 20.	Steel stacks,	Washington, D. C.	Apr. 11
Apr. 20.	Brick paving,	Alexandria, Va.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 20.	School house,	Washington, D. C.	Apr. 4
Apr. 20.	Repairing light station,	Mobile, Ala.	Apr. 4
Apr. 20.	Church building,	Albert Mines, N. B.	Apr. 4
Apr. 20.	Iron bridge,	Newport, Ky.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
Apr. 20.	Rip-rap,	Duluth, Minn.	Apr. 18
Apr. 20.	Paving,	Akron, O.	Apr. 18
Apr. 20.	Gravel road,	Killingly, Conn.	Apr. 18
Apr. 20.	Stone road,	Wellfleet, Mass.	Apr. 18
Apr. 22.	Boat house,	Alexandria, Va.	Mar. 28
Apr. 22.	Electric plant,	Lawrenceburgh, Ind.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 11.		
Apr. 22.	Steel stacks, etc.,	Washington, D. C.	Mar. 28
Apr. 22.	Building,	Buffalo, N. Y.	Apr. 4
Apr. 22.	Buildings,	Ellis Island, N. Y. H.	Apr. 11
Apr. 22.	School house,	John Day, Ore.	Apr. 11
Apr. 22.	Paving (75,000 yds.),	Boston, Mass.	Apr. 11
Apr. 22.	Engine, pump, etc.,	Wallington, N. J.	Apr. 11
Apr. 22.	Improving streets,	Wabash, Ind.	Apr. 11
Apr. 22.	Removing wreck,	Norfolk, Va.	Apr. 11
Apr. 22.	School house,	Newport, R. I.	Apr. 18
Apr. 22.	Stand-pipe, reservoir, etc.,	Aledo, Ill.	Apr. 18
Apr. 22.	Asylum building,	Galveston, Tex.	Apr. 18
Apr. 23.	Water-works,	Fort Atkinson, Wis.	Apr. 18
Apr. 23.	Paving,	Jersey City, N. J.	Apr. 18
Apr. 23.	Life saving stations (2),	Detroit, Mich.	Apr. 11
Apr. 23.	Elevator,	Washington, D. C.	Apr. 4
Apr. 23.	Air lift pumping plant,	Ft. Wayne, Ind.	Mar. 21
	Advertised, Eng. News, Mar. 21 and 28.		
Apr. 24.	Steam tender,	Washington, D. C.	Mar. 28
Apr. 24.	Sanitarium buildings (2),	Milledgeville, Ga.	Apr. 4
Apr. 24.	Paving,	Cohoes, N. Y.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 24.	Hospital building,	Dayton, O.	Apr. 11
Apr. 24.	Iron bridge,	Sauk Center, Minn.	Apr. 18
Apr. 24.	Sewers,	New York, N. Y.	Apr. 18
Apr. 25.	Church building,	Jacksonville, Fla.	Apr. 18
Apr. 25.	Dredging,	Grand Rapids, Mich.	Apr. 18
Apr. 25.	Bridge work,	New York, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11 and 18.		
Apr. 25.	Electric wiring,	Washington, D. C.	Apr. 4
Apr. 25.	Pipe sewers (6 miles),	Rocky Mount, S. C.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
Apr. 26.	Bridge,	Milwaukee, Wis.	Mar. 21
Apr. 26.	Buildings,	Buffalo, N. Y.	Apr. 4
Apr. 26.	Water pipe, etc.,	Governor's Island, N.Y.H.	Apr. 4
Apr. 26.	Heating plant,	Washington, D. C.	Apr. 11
Apr. 26.	Paving brick (50,000),	Holyoke, Mass.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 26.	School house,	Wyandotte, Mich.	Apr. 11
Apr. 26.	Drainage ditch,	La Porte, Ind.	Apr. 18
Apr. 26.	Grain elevator,	Plum Coulee, Man.	Apr. 18
Apr. 26.	Paving,	St. Louis, Mo.	Apr. 18
Apr. 27.	Steel bridge,	Nashville, Tenn.	Apr. 18
Apr. 27.	Reservoir, etc.,	Middletown, N. Y.	Apr. 18
	Advertised, Engineering News, April 18.		
Apr. 27.	Bridges (3),	London, O.	Apr. 11
Apr. 27.	Heating apparatus,	Washington, D. C.	Apr. 4
Apr. 27.	Naval building,	Key West, Fla.	Mar. 28
Apr. 29.	Brick paving,	Millersburg, O.	Apr. 4
Apr. 29.	Bridge substructure,	Washington C. H., O.	Apr. 11
Apr. 29.	Water-works,	Amherst, Wis.	Apr. 18
Apr. 29.	Sewers,	Toledo, O.	Apr. 18
Apr. 29.	Sewerage system,	Sandy Hill, N. Y.	Apr. 18
	Advertised, Eng. News, April 18 and 25.		
Apr. 30.	Sewers (4½ miles),	Wauwatosa, Wis.	Apr. 18
Apr. 30.	Hospital building,	Goldsboro, N. C.	Apr. 18
Apr. 30.	Bridges (4),	Topeka, Kan.	Apr. 18
Apr. 30.	Water-works,	Yankton, S. Dak.	Apr. 18
Apr. 30.	Water-works,	Marion, Ind.	Apr. 18
	Advertised, Eng. News, April 18 and 25.		
Apr. 30.	School building,	Columbus, O.	Apr. 18
Apr. 30.	Paving,	Dunkirk, N. Y.	Apr. 11
	Advertised, Eng. News, April 11 and 18.		
Apr. 30.	Light-house tender,	Washington, D. C.	Apr. 11
Apr. 30.	Sewer,	Cincinnati, O.	Apr. 4
Apr. 30.	Rebuilding bridge,	McConnellsville, O.	Apr. 4
Apr. 30.	Masonry dam,	Waterbury, Conn.	Apr. 4
	Advertised, Eng. News, April 4 to 18.		
Apr. 30.	Office building,	Shreveport, La.	Apr. 4
Apr. 30.	Water tunnel and aqueduct,	Boston, Mass.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 30.	Electric plant,	Silverton, Colo.	Mar. 28
Apr. 30.	U. S. building,	Cheyenne, Wyo.	Mar. 21

RAILWAYS.

ALPENA & WESTERN.—Thomas Goodburne, Secy., Detroit, Mich., informs us that this company is now ready for receiving bids for the construction of its projected road, which will have a total length of about 200 miles, extending from Alpena, on Lake Huron, to Frankport and Mancelona, on Lake Michigan. Bids will also be received for 75-lb. rails, cars, engines and other appurtenances. It is the intention of the company to have 50 miles of the road running by midsummer. Grading will be started soon after the contract is let. Surveys are new being rapidly pushed under the supervision of Henry J. Hall, Ch. Engr. Delbert C. Morris, Pres., Detroit.

ARKANSAS.—Negotiations are being made by parties controlling a territory in this state containing about 1,000,000,000 ft. of yellow pine and oak timber, also two sawmills and 20 miles of standard gage railway, for an additional investment of about $500,000 to be used in the extension of that road through the timber to connect with two trunk lines and a navigable river, so as to increase their timber holdings. For information address "Yellow Pine," Box E. 245, care New York Commercial.

ARIZONA.—Reports state that T. L. Henderson, of Los Angeles, Cal., is making a survey for a contemplated narrow gage railway soon to be built from the mines at Quartette, to a mill 14 miles distant.

CADIZ R. R.—P. Armitage, Ch. Engr., Cadiz, Ky., writes us that the location surveys for this 10.5-mile road have been completed, and rights of way secured for a distance of six miles. The construction work will be started at once. No contracts have yet been awarded. Subscriptions to the amount of $25,000 have been received. W. C. White, Pres., Cadiz.

CHICAGO, INDIANAPOLIS & LOUISVILLE.—Arrangements are being made for inprovements to the company's service, which will cost in the neighborhood of $2,000,000. It is stated that 50 miles of new 85-lb. steel rails will be laid, and 30 miles of road reballasted to a depth of 8 ins. Considerable ballasting will also be done on the Indianapolis division, and over 200,000 new ties will be laid, after having been treated to a preserving process. New steel bridges are to be erected at Monticello and Broad Ripple, which will cost about $150,000. Changes are to be made in the Indianapolis division at Delhi by eliminating several bad curves and lowering grades. Stone arches are to replace trestles in many places, and new stations will be erected in Lafayette and Frankfort. A new freight station at Louisville, Ky., is also under consideration. A. S. Kent, Asst. Engr., Chicago.

COAST BOUNDARY.—Reports state that the Provincial Government of British Columbia will consider proposals received on April 15 for constructing this road. J. D. Prentice, Provincial Secy., Victoria.

COLUMBUS, DELAWARE & MARION.—The directors of this company are said to have recently held a meeting for the purpose of awarding of contracts. T. A. Simons, Pres.; J. E. Lattimer, Vice-Pres., and J. W. Holcomb, Treas., Columbus, O.

FLORENCE & CRIPPLE CREEK.—A contract has been let for the construction of a spur line from the Victor branch of this road to the Golden Cycle on Battle Mountain, the extension to cost about $25,000. A. B. Thurston, Res. Engr., Florence, Colo.

GEORGIA NORTHERN.—Work will be started in about 30 days on an extension to Albany, Ga. Grading is finished and J. N. Pidcock, Jr., Secy. and Treas., Moultrie, Ga., has gone north to purchase the rails.

HOLLY RIVER & ADDISON.—J. Fisher, Sutton, W. Va., informs us that Joseph Fuccy has the contract for this line, 34 miles in length. The contractor has 200 men now at work and will double that number. His present address is Palmer, W. Va. The right of way is entirely secured and the survey completed. Findlay Barber, Ch. Engr., Palmer.

ILLINOIS CENTRAL.—A survey has been started from Redwood, Miss., ten miles north of Vicksburg, to Yazoo City, about 50 miles distant. The citizens of the last-named city will raise a bonus of $25,000 for constructing the extension. It is stated that work will be started at once.——Two routes are reported to be under consideration for an extension to Tiptonville, Tenn. One is from Obion, through Glass and Hornbeck, to Tiptonville, about 21 miles, and the other is to build the extension now under construction down the Forked Deer River for a distance of 18 miles further. D. Sloan, Ch. Engr., Chicago, Ill.

KINGSTON & PEMBROKE.—The Ontario Legislature has made a grant of $75,000 for an extension of this road to Lanark, that province, and, it is stated, the company will build the road this season, providing the Dominion Government makes a similar grant.

MICHIGAN CENTRAL.—A contract is reported to have been let to Westinghouse, Church, Kerr & Co., of New York, for the electrical equipment for the new car shops, at about $200,000.

MOSCOW & IDAHO.—Geo. Creighton, Pres., Moscow, Idaho, informs us that the locations have been made and filed, and considerable right of way is secured. Estimates have been completed, but the time for awarding contracts is as yet undecided. The line will be 42 miles long, running from Moscow to Collins, Idaho. E. G. Taber, Ch. Engr., Moscow.

MICHIGAN.—Reports state that Sailing & Hanson, of Grayling, Mich., are securing options on large tracts of timber lands in Cheboygan and Presque Isle counties, and will build a line of railway from Johannasburg on the Michigan Central R. R., through Montmorency, Presque Isle and southwestern part of Cheboygan county to take the timber out.

MINNEAPOLIS & ST. LOUIS.—Reports state that this company is planning to spend $250,000 in improvements this spring and summer, revising grades, reconstructing bridges and building a new storehouse at Cedar Lake. Among the more important works to be accomplished will be the revising of the grade between Albert Lea and Minneapolis, ballasting the Watertown division, the laying of 40 miles of heavier steel rails, and the construction of two steel bridges, one over the Des Moines River and the other over the East Fork. Work on the Watertown Division is already commenced. H. G. Kelley, Ch. Engr., Minneapolis, Minn.

MOBILE, JACKSON & KANSAS CITY.—The contract for an extension from Merrill, Miss., to Hattiesburg, about 45 miles, has been let to C. D. Smith & Co., of Birmingham, Ala., according to reports.

NEW LONDON & NORWALK.—The New London & Hartland R. R. Co. and the Hartland & Norwalk R. R. Co. have been incorporated in Ohio in the interest of the Richland & Mahoning R. R., and will later be consolidated under the above name, for the purpose of building and operating a road between those points. C. W. French, C. D. Crouch and E. C. Hurd are interested.

NORTHERN PACIFIC.—C. S. Mellen, Pres., St. Paul, Minn., has announced that $10,250,000 will be expended on betterments to the company's service. Of this amount, $5,250,000 will be used for rolling stock and similar equipment, and the remaining amount will be spent in permanently improving the roadbed from St. Paul to Portland.

PENNSYLVANIA.—The plans of Andrew Carnegie to build a line of railway parallel to the Pennsylvania R. R., from Pittsburg to the seaboard, have been abandoned.

PITTSBURG, TOLEDO & WESTERN.—Incorporated in Ohio with a capital stock of $1,000,000, to build and operate a road between a point on the Ohio River, near Mingo Junction, and Toledo, passing through 16 counties. J. W. Patterson, Engr., Pittsburg, Pa.; N. P. Ramsey, Dayton, O., and V. C. Winston, St. Louis, Mo., are incorporators.

READING, BIRDSBORO & POTTSTOWN.—This company has been chartered in Pennsylvania with $10,000 capital stock, to build and operate a line from Reading to Gibraltar, about five miles. R. J. Purcell, Pres., Atlantic City, N. J.

RIVERSIDE & HARLEM.—Chartered in Illinois to build a road from a point in Cook County on the Madison & Northern R. R. in a northerly direction to a point on the Wisconsin Central Ry., in that county. The capital stock is $200,000. John C. Welling, Lewis T. Moore and Wm. C. Bruen, of Chicago, are incorporators.

TENNESSEE.—A proposition has been made by C. E. Coon, of Toledo, O., to Lynchburg, that if the citizens of Moore County subscribe $75,000 towards the capital stock of a railway company, he will build a road to that city.

TALLULAH FALLS.—The people of Rabun County, Ga., have pledged themselves to furnish ties and timber for trestles, and a free right of way through [illegible] county for the projected extension of that road. [illegible] Prentiss, Pres., 31 Nassau St., New York.

UNION PACIFIC.—It is reported that $[illegible] will be expended in new steel and other improvements [illegible] the Kansas Division between Junction City and E[illegible] B. Berry, Ch. Engr., Omaha, Neb.

WESTERN MARYLAND.—A contract [illegible] let to Chas. E. Stewart, Westminster, Md., for [illegible] improvements to this line west of Hagerstown, Md. W[illegible] begin at once.

STREET AND ELECTRIC RA[illegible]AYS.

AUGUSTA, ME.—The Togus & Augusta [illegible] received a complete right of way from Water St., [illegible] city, to Togus, about five miles distant, and will [illegible] the construction of its line as soon as the weather [illegible]orable.

NORTHAMPTON, MASS.—It is stated [illegible]ork will soon begin on the construction of the Greenfi[illegible] Deerfield St. Ry. It is expected to complete the road [illegible] Plans are being prepared for a bridge over the [illegible]field at Cheapside. F. E. Pierce, Pres.

BRANFORD, CONN.—The board of selec[illegible] has been petitioned by the Branford Electric Ry. Co. [illegible]mission to locate two sidings at Short Beach, and on[illegible] Kirkham St. A. Wm. Sperry, Engr.

BUFFALO, N. Y.—D. A. Crage & Co., [illegible]ssors to Crage & Tench, contractors, 61 Terrace, Buffa[illegible], have received a contract for building 10 miles of [illegible] track electric railway between this city and Pittsto[illegible] The contractors will need 150 men, 200 teams, four st[illegible] shovels and 20 steam drills to begin work at once. Co[illegible]racts will be sublet to responsible contractors with o[illegible] for the rock and earth work.

LYONS, N. Y.—The Ontario Traction Co. will soon file articles of incorporation for the purpose of [illegible]ilding and operating an electric road from Canandaigua to Pulteney-ville. The company will be capitalized at $400,000. L. S. Cuyler, Pulteneyville, and B. H. Davis, of Palmyra, are interested.

ROCHESTER, N. Y.—Franchises are now being secured for the Rochester & Eastern Ry., which is to run from this city to Canandaigua and Geneva. The council of Geneva has already granted a franchise. H. Knapp and O. N. Crane, Canandaigua, are interested.

EAST ORANGE, N. J.—The rights of way for a trolley line from Bloomfield to Irvington are being secured by Francis M. Eppley, of West Orange; Geo. A. Smith, Mayor of Vailsburg, and others interested in that projected road.

CARLISLE, PA.—John R. Miller, Pres., writes that an ordinance has been passed in Chambersburg for a franchise for the Chambersburg & Gettysburg Electric Ry., and negotiations are now under way for the rights of way to Fayetteville. The construction capital has been secured, but the contracts will not be awarded until the rights of way are entirely secured. The line will be operated by electricity, and will be eight miles in length, running between Chambersburg and Gettysburg, via Fayetteville.

MEADVILLE, PA.—The survey for the line of the Meadville Traction Co. between Meadville and Titusville has been completed. Work will be started at once and pushed to completion as rapidly as possible.

PITTSBURG, PA.—Westinghouse, Church, Kerr & Co. have received a contract from the Scranton & Wilkesbarre Rapid Transit Co., of Scranton, for the equipment and overhead construction, including motors, cars, engines and generators and the power house complete. The contract amounts to about $1,200,000.

BALTIMORE, MD.—The Washington & Annapolis Electric Ry. will construct a trolley line from the District of Columbia to Baltimore, with a branch line 15 miles in length to Annapolis. Parties have offered to subscribe $1,500,000 towards the project. Geo. R. Willis, D. M. Ludington and Robt. E. Gerhart are interested.

WESTMINSTER, MD.—The council has granted a franchise to Chas. E. Fink and Dr. F. T. Shaw for an electric railway over the streets of this city. The franchise is for a period of 40 years and stipulates that work must be started within one year.

ELKIN, N. C.—H. G. Chatham, Elkin, writes that the surveys for the Elkin & Allegheny Ry., 30 miles in length, have been started. The rights of way have been secured and steps are being taken towards developing the water power to be used in generating the current for operating the line. It is expected to begin grading by Aug. 1, and to have the road completed by January, 1903.

DAHLONEGA, GA.—Application has been made for a charter for the Gainesville & Dahlonega Electric Ry., to be about 20 miles in length, running through Hall and Lumpkin counties. The capital stock will be $500,000. J. F. Moore, Dahlonega, and M. C. Brown, of Gainesville, are interested.

CINCINNATI, O.—G. R. Scrugham, Pres. and Gen. Mgr., Union Trust Bldg., Cincinnati, informs us that the contract for the Cincinnati & Eastern Electric Ry. will be let between May 1 and 15. The surveys have been completed, and the construction capital amounting to $500,000 is secured. The road will have a length of 30 miles, extending from this city to New Richmond. It will pass through several towns en route.

COLUMBUS, O.—The Columbus, Delaware & Marion R. R. has filed articles of incorporation with a capital stock of $1,000, to be raised to $1,000,000, to build a road through Franklin, Delaware and Marion counties, running from Columbus to Marion, with a branch from Worthington to Dublin. S. T. Everett, J. W. Holcomb and J. E. Latimer are interested.

COLUMBUS, O.—The Canton-Akron Ry. Co. has been incorporated with $600,000 capital stock, to build and operate an electric line connecting those points. Wm. H. Hoover, John C. Welty and Austin C. Brant are interested.

ELYRIA, O.—Geo. H. Chamberlain, of this city, writes us that the contracts for the rails, ties, poles and iron work on the Elyria, Grafton & Southern Ry. have been let, and that grading will be commenced within a few days. A preliminary survey has been made. The road will be about 7.5 miles in length, and will run on a private right of way for nearly the entire distance. S. B. Day, Pres.; L. A. Fanver, Ch. Engr., Elyria.

TOLEDO, O.—The Toledo & Findlay Traction Co. has been incorporated with $1,500,000 capital stock to build an electric road between those cities, via Perrysburg, Bowling Green, Tromley, North Baltimore and intermediate points. Geo. S. Kerper, Ed. V. Bope and Chas. F. Smith are interested.

DETROIT, MICH.—Contracts have been awarded by the Grand Rapids & Lake Michigan Ry. as follows: Power house, Arnold Electric Power Station Co., Chicago, general contract; engines, Ball & Wood Co.; boilers, Aultman Taylor; electric machinery, Westinghouse Co.; cars, Jewett Car Co.; motors, Lorain Steel Co. Detroit Construction Co., Engrs., Chamber of Commerce.

DETROIT, MICH.—The Standard Engineering Co., Chamber of Commerce, Detroit, are the engineers for the Detroit & Bay City Electric Ry., having the entire road equipment in charge, and not Field & Hinchman, Majestic Bldg., Detroit, as erroneously stated in our issue of April 11.

DETROIT, MICH.—Negotiations are pending for the furnishing of labor and materials for the construction and equipment of the Detroit & Toledo Shore Line R. R., to be a single track road, 60 miles in length, 30 miles of which will be over a private right of way. The rail used will be 70 lbs. to the yard, with fish-plates, bonds, etc. One 480-ft. triple-span steel bridge of 160 ft. span will be needed and three 80-100-ft. single spans; also about 3,000 lin. ft. of timber trestling. The overhead work will consist of 30 miles of hard-drawn copper trolley wire, span wires, poles, etc. Woven-wire fencing will be used, with cedar posts for same. The cars will be 45 ft. in length, having a seating capacity of 60 persons and a speed of 60 miles per hour; four motor trucks will be required, having motors of 50 HP. Specifications for the above work are on file at the office of the company at 1130 Majestic Bldg., Detroit. Proposals should be submitted in the near future as work will shortly be started and pushed to completion by early fall. G. W. H. Stewart, Secy.; Chas. Gen. Mgr., and G. P. Ross, Ch. Engr.

INDIANAPOLIS, IND.—The Ft. Wayne & Wabash Ry. has been incorporated with a capital stock of $50,000 to build an electric road extending from Ft. Wayne to Wabash, a distance of 42 miles. The road will be built along the line of the old Wabash & Erie Canal.

CHICAGO, ILL.—The Freeport Electric Co., capitalized at $50,000, has been incorporated, and will construct a road from Rockford, where its principal office will be located, to Freeport. Thomas M. Ellis, John H. Catlin and Frank L. Puffer, of Rockford, are interested.——It is said that the Metropolitan Elevated R. R. will issue $1,500,000 in bonds for the construction of two extensions in the near future. W. S. Menden, Ch. Engr.

LEAD, S. DAK.—The Homestake Co. has applied to the county commissioners for a franchise to build and operate a road through Lawrence county. The franchise will be for a period of 99 years. T. J. Grier, Supt.

CARROLLTON, MO.—F. V. Crouch, Pres., Iola Electric R. R., informs us that a survey has been made and the right of way obtained for the company's projected road, nine miles in length, and contracts will be let for construction in about 30 days. Poles and some of the ties have been purchased. Burns & McDonald, Engrs., Kansas City, Mo.

LAS VEGAS, N. MEX.—A franchise has been granted to E. L. Epperson & Co. for a right of way to build an electric railway and a light and power house in that place. It is expected that $100,000 will be expended, and that the company will have a line 25 miles in length in operation by July 1.

GRASS VALLEY, CAL.—Application has been made by John Martin, of the Bay Counties Power Co., for an electric railway connecting Nevada City with this place. The board of county supervisors has granted a temporary franchise, and a survey has been started by Fred Miller, Engr. It is stated that work will be commenced in a few weeks. The road will cost about $100,000. The power will be furnished from the plant of the Bay Counties Co. on the South Yuba River.

SALT LAKE CITY, UTAH.—The Salt Lake City R. R. has made application to the county board for a franchise for extensions on certain highways. W. P. Read, Supt.

ELECTRIC LIGHT AND POWER.

CAMDEN, ME.—The people of this city are said to be considering the question of erecting a plant and waterworks.

MIDDLEBORO, ME.—The council has appropriated $7,500 for increasing the municipal plant.

BOSTON, MASS.—We are informed that the following bids were received April 13 by M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., for a power house at the west end of the smithery at the navy yard here, (1) being for power house according to plans and specifications, with granite water table, limestone sill course and trim and slate roof covering; (2) same as 1, with tile roof covering; (3) same as 1, with granite composite sill course and trim; (4) same as 2, with granite composite sill course and trim; (5) same as 1, with granite composite water table; (6) same as 2, with granite composite water table; (7) same as 3, with granite composite water table; (8) same as 4, with granite composite water table; (9) amount to be deducted from each bid in case reaming of steel work specified in paragraph 58 is not required, except where holes match imperfectly: Norcross Bros., 73 Tremont St., Boston, Mass., $47,843, $48,582, $48,625, $49,364, $48,442, $49,181, $49,187, $49,926, $700; L. L. Leach & Son, 1402 Marquette Bldg., Chicago, Ill., $43,772, $43,772, $43,000, $43,000, $42,500, $42,500, $42,000, $42,000, $200; Chas. H. Dodge Construction Co., Boston, Mass., $48,980, $50,060, $50,498, $50,578, $51,132, $51,212, $51,650, $51,730, $400; Mead, Mason & Co., 520 Tremont Bldg., Boston, Mass., $47,000, $47,592, $46,755, $47,345, $46,000, $46,592, $45,555, $46,347, $320; R. A. Griefen, 1203 Chamber Commerce Bldg., Chicago, Ill., $45,980, $46,280, $46,500, $46,800, $46,800, $47,100, $47,300, $47,600, $450; Frank G. Coburn & Co., 926 Tremont Bldg., Boston, Mass., $43,926, $46,126, $43,926, $46,126, $43,926, $46,126, $43,926, $46,126, $320; P. J. McCaffery, Utica, N. Y., $45,000 conditional, $42,000 less $470 conditional: James A. Colson, 11 Cross St., Charlestown, Mass., $55,290, $57,470, $55,780, $57,960, $55,060, $57,200, $55,530, $57,710, $600.

MARBLEHEAD, MASS.—A special election will be held April 18 to vote on the question of making an addition to the present boiler plant, etc.

MELROSE, MASS.—Bids are asked until May 15 for lighting the streets and public buildings of this city, as stated in our advertising columns. W. D. Hunter, Engr.

UTICA, N. Y.—E. A. Pinkney, Gen. Mgr., writes us that plans and specifications have been prepared by Thomas E. Murray, 57 Duane St., New York, and are now in the hands of builders for bids for a plant for the Equitable Gas & Electric Co.

AMBLER, PA.—The Ambler Electric Light, Heat & Power Co. is said to have offered to sell its plant to the city. R. V. Mattison, Pres.

EMPORIUM, PA.—Bids are asked by the light committee until April 30 for erecting a plant requiring one 50 K-W. generator, one 60-HP. gas engine, switchboard, pole line, etc. E. O. Bardwell, Mayor; C. G. Catlin, Chn. Com.

NANTICOKE, PA.—Bids are asked until April 18 for furnishing 59 2,000 c. p. arc and 32 25 c. p. incandescent electric lights. C. L. Fairchild, Borough Secy.

READING, PA.—We are informed that the Peoples' Light, Heat & Power Co. is having plans prepared for a plant. James K. Getz, Pres., 516 Penn St.

LEWES, DEL.—J. T. Thompson, Mayor, writes us that the people have voted in favor of issuing bonds for erecting a plant.

HARRISBURG, VA.—Reports state that a dam and plant, to cost about $20,000, will be built on the Shenandoah River at Grottoes. Power will be transmitted to Harrisburg by underground cables.

SUFFOLK, VA.—The date for opening of bids for a 15-year franchise from Jan. 1, 1902, for a plant and a contract for lighting the city has been postponed until May 14. W. N. McAnge, Chn. Light. Com.

FT. GAINES, GA.—Press reports state that J. H. Fulford is interested in the Fort Gaines Mill & Power Co., which will erect a plant to operate about 500 lights.

RALEIGH, N. C.—The light committee has recommended the erection of a municipal plant.

SHEFFIELD, ALA.—H. Habbeler writes us that the council has refused to grant him a franchise for a plant and water-works.

CLARKSDALE, MISS.—Bids are asked until May 7 for erecting a plant requiring one 90-HP. and one 130-HP. engines, one 60 K-W. and one 90 K-W. generators, pole line, etc., as stated in our advertising columns. W. D. Barry, Chn. Light Com.; J. A. Omberg, Jr., Engr., Memphis, Tenn.

BRISTOL, TENN.—The legislature has passed a bill authorizing this city to issue $25,000 in bonds for erecting a municipal plant.

CHATTANOOGA, TENN.—We are informed that the county light committee will probably receive bids in a couple of weeks for erecting a plant at the county jail, to cost about $2,500. W. L. Dodds, County Engr.

DYERSBURG, TENN.—Bids are asked until June 1 for a 20-year franchise for a plant and water-works. W. A. Fowlkes, Jr., Mayor.

KNOXVILLE, TENN.—The council has granted a franchise to the Knoxville Water & Electric Power Co. Wm. Rule, Mayor.

TULLAHOMA, TENN.—C. L. Phillips writes us that a special election will be held on April 25 to vote on the question of issuing $10,000 in bonds for erecting a municipal plant.

WINCHESTER, TENN.—Walter G. Kirkpatrick, of Jackson, Miss., has been engaged to make surveys for a plant and water-works here. A dam will be constructed on Elk River and power will be transmitted to this city.

BUTLER, O.—We are informed that at the election recently the people voted to issue $10,000 in bonds for erecting a municipal plant. The light committee will at once proceed to secure plans for a plant to operate 25 1,500 c. p. arc and 800 16 c. p. incandescent lights. A. B. Burkhulder, Chn. Com.

MANSFIELD, O.—Bids are asked until May 11 for lighting the city for two years from July 1, 1901. F. M. Remy, Cy. Clk.

BRAZIL, IND.—Reports state that this city is considering the question of erecting a municipal plant.

SWEETSER, IND.—It is stated that this town will erect a plant and water-works.

ST. JOSEPH, MICH.—Bids are asked by the lighting committee until May 9 for erecting a plant, requiring one 125 arc light dynamo, one 100-HP. engine, lights, pole line, etc., as stated in our advertising columns. Frank N. Wilkinson, Chn. Com.

ALDEN, IA.—This town has voted to grant a franchise for a plant, according to reports.

FAIRFIELD, IA.—Press reports state that this town has voted to build a municipal plant.

NEW LONDON, IA.—This city is said to have voted to issue bonds for erecting a municipal plant.

GRANITE FALLS, MINN.—This town has voted to issue $6,000 in bonds for improving the plant, etc.

COOPER, TEX.—Local papers state that a plant will be erected here shortly.

PITTSBURG, TEX.—The plant of the Pittsburg Ice & Electric Light Co. was recently destroyed by fire; loss about $7,000.

WACO, TEX.—At the elections on April 3 this city voted to issue $100,000 in bonds for erecting a municipal plant and $300,000 for water-works.

GLENWOOD SPRINGS, COLO.—The board of trustees has decided to issue $30,000 in bonds for erecting a municipal plant.

McKITTRICK, CAL.—Press reports state that this town will erect a plant and water-works.

REVELSTOKE, B. C.—On April 20 this city will sell $69,975 in bonds for purchasing the local plant and waterworks, according to reports.

AMHERSTBURG, ONT.—The plant of the Amherstburg Electric Light, Heat & Power Co. was recently damaged by fire; loss about $5,000. J. A. Auld, Pres.

BRIDGES.

WASHBURN, ME.—Turner Willey writes that the Berlin Iron Bridge Co., East Berlin, Conn., has been awarded the contract for the two-span steel bridge in this place at $13,000.

NORTHFIELD, MASS.—The question of building a new bridge in this town to replace the condemned structure over the Connecticut River used by the Central Vermont R. R., is being considered. The town will subscribe $10,000 toward the new structure.

BUFFALO, N. Y.—The grade crossing commission has decided to build the Van Rensselaer St. viaduct. It will cost about $110,000. Bids will probably be called for this fall and work started so as to have the structure completed by spring.——The park board has awarded the contract for constructing a bridge on the South Side Parkway over the tracks of the Buffalo, Rochester & Pittsburg R. R. at $18,800.

CANAJOHARIE, N. Y.—A contract has been let to the Owego Bridge Co., Owego, for building a steel bridge over the Mohawk River to take the place of the covered wooden structure burned last winter. The new bridge will cost about $44,900.

COHOES, N. Y.—A bill has been introduced in the Senate at Albany authorizing the Union Bridge Co. to erect an iron and steel bridge in place of the present Waterford bridge. The company will have 60 days in which to prepare plans and specifications, and work must begin on the structure within 30 days after their approval by the state engineer.

PLATTSBURG, N. Y.—The wooden bridge on the Moffat road in this town has been washed away by the spring freshets, and the bridge over Dead Creek has been condemned.

PORTCHESTER, N. Y.—At a meeting held in Greenwich, Conn., on April 16, it was decided to build a new steel bridge, 50 ft. in width, over the Byram River, the dividing line between New York and Connecticut. The bridge will cost about $11,000 and the expense will be borne by that town, Westchester county, N. Y., and a trolley company in whose interest the bridge is to be built.

CATASAUQUA, PA.—The Crane Iron Works will probably erect a 70-ft. steel span over the canal at the point, also four 89-ft. steel spans over the Lehigh River. J. M. Fitzgerald, Secy. Catasauqua, may be addressed.

CONNELLSVILLE, PA.—Application has been made by L. F. Ruth, I. C. Smutz, E. K. Dick and others for a charter for a new bridge over the Youghiogheny River, between Connellsville and New Haven.

WILLIAMSPORT, PA.—The viewers appointed by the county court to decide upon the advisability of the county erecting a bridge between DuBoistown borough and Newberry, have decided to recommend favorably the erection of the bridge. The structure will be about 1,300 ft. in length, and will cost about $90,000. Robert Dunbar and John Bower are viewers.

DUBLIN, GA.—The county commissioners have appointed A. R. Arnau, Wm. Kea and J. M. Blackshear a committee to provide for the erection of the proposed Oconee River bridge, which will be about 1,100 ft. in length, having an average height of 20 ft. The structure will have concrete or stone foundation and wrought-iron superstructure. Plans are said to have been invited by the committee.

ORLANDO, FLA.—The county commissioners have awarded the contract for constructing an iron bridge across the Big Ekonlockhatchee Creek, on the Oviedo and Chuluota road, to the George E. King Bridge Co., they being the lowest of four bidders.——The county commissioners have awarded a contract for a steel bridge across the Peace River to the Converse Bridge Co., Chattanooga, Tenn., at $4,000.

CLARKSDALE, MISS.—Bids are asked until June 3 for constructing a steel bridge across the Sunflower River in this place, to be about 400 ft. in length and 20 ft. wide, as stated in our advertising columns. M. J. Bouldin, Chancery Clk.

LYNCHBURG, TENN.—D. D. Blythe, J. M. Sebastian and Lem Motlow have been appointed members of the committee to contract and superintend the construction of a steel or stone bridge across East Mulberry Creek in the northwest portion of this place. Bids will be asked at once.

NASHVILLE, TENN.—Bids are wanted by the committee appointed to construct a steel bridge across the Hamilton Creek until April 27 for constructing said bridge. Plans and specifications may be seen at the office of the County Judge.

SPENCER, TENN.—The proposition of building a steel bridge over the Caney Fork River, to cost about $6,500, is being considered.

BARBERTON, O.—The Barberton Belt Line R. R. is said to be preparing to build a $60,000 bridge across the railway tracks, the canal and the Tuscarawas River.

CLEVELAND, O.—A resolution has been adopted by the board of control authorizing the director of public works to prepare plans for a bridge across the Kingsbury Run at Tod St., Francis to Kinsman St.

COLUMBUS O.—The county commissioners have authorized the county engineer to prepare plans for the erection of a bridge over Black Lick, east of Brice on the county line. The expense, which will be about $15,000, will be shared jointly by Franklin and Fairfield counties.

SPRINGFIELD, O.—Local papers state that the park board has decided to build an iron bridge over the lagoon where the foot bridge was washed away last fall.

YOUNGSTOWN, O.—Bids are asked until May 11 for constructing the stone work for the McGuffey St. bridge. Marcus Westerman, Chn. County Comrs.

INDIANAPOLIS, IND.—A. S. Kent, Asst. Engr., Chicago, Indianapolis & Louisville Ry., Chicago, Ill., is reported as saying that in addition to improvements proposed by the company, two steel bridges will be erected, one at Monticello and the other at Broad Ripple.

WILLIAMSPORT, IND.—Bids are wanted by the county commissioners until May 7 for constructing the following highway bridges: One 60-ft. span riveted truss bridge; one 33-ft. span I-beam bridge; three 30-ft. span I-beam bridges, and one 20-ft. span I-beam structure. Morton C. Andrews, Engr.

ST. JOSEPH, MICH.—Bids are asked until May 7 for constructing a steel viaduct over the ravine on Michigan Ave., 400 ft. long, 20-ft. road, one 6-ft. sidewalk, and with an extreme height of 47 ft., as stated in our advertising columns. Edward D. McConnell, Chn. Viaduct Com.

ST. JOSEPH, MICH.—The question of bonding the city for $25,000 for the purpose of building a new steel viaduct was recently voted on.

CHICAGO, ILL.—The village of Calumet has voted to issue bonds to the amount of $5,500 for the construction of a new steel bridge over the Calumet River. The plans for the bridge calls for a structure costing about $11,000, the expense of which will be equally divided by the county and village.

CEDAR FALLS, IA.—Among the improvements proposed for this year are the following: New bridge across Cedar River, $25,000; new race bridge on Main St., $1,500.

DES MOINES, IA.—The board of public works has been instructed to prepare plans for constructing a bridge over the Des Moines River at southeast Sixth St.

DUBUQUE, IA.—The Dubuque & Wisconsin Bridge Co. will soon ask for bids for the substructure of its proposed bridge over the Mississippi River. G. F. Thormann, Secy.; E. C. & R. M. Shankland, Engrs., The Rookery, Chicago.

HALSTEAD, MINN.—Bids are asked until April 27 for constructing a bridge across the Marsh River, to be 46 ft. by 16 ft., according to reports. R. L. Hauge, Chn. Bd.

SAUK CENTER, MINN.—Bids are asked until April 24 for building a new iron bridge 126 ft. in length across the Sauk River in this town. P. J. Gruber, County Audr., St. Cloud.

TOPEKA, KAN.—Bids are asked until April 30 for building four bridges, to cost about $80,000. Plans and specifications will be on file in the office of the county engineer in about 10 days. The date of receiving bids was postponed from April 13, on account of the difficulty in locating two of the bridges. The structures will range from 700 to 1,000 ft. in length. John P. Rogers, County Engr.

ABERDEEN, S. DAK.—The county commissioners have received the following bids for constructing four 40-ft. span steel bridges: Gillette-Herzog Co. (accepted), $4,975; Geo. E. King Bridge Co., $5,145; J. G. Bullen & Co., $5,400; Wisconsin Bridge & Iron Co., $5,115; C. G. Sheely & Co., $5,300.

WILMOT, S. DAK.—Bids are asked until April 20 for three bridges in this township, according to reports. J. L. Phanco, Clk.

KINGSTON, MO.—Bids are asked until April 29 for building a bridge across a branch or near the section line of Section Five, Township 55. Dave Stucke, Rd. and Bridge Comr.

SPRINGFIELD, MO.—J. A. White, of this city, informs us that bids will probably be received on May 7 for subways. The work is not yet advertised.

MARSHALL, TEX.—H. T. Lyttleton, County Judge, informs us that the contract for building one high truss bridge with a 75-ft. span and 50 ft. of wooden approaches and a 50-ft. steel bridge, low truss, with 28 ft. of wooden approaches, has been let to the Southern Bridge & Construction Co., of Houston, at $1,661.

COLORADO SPRINGS, COLO.—At the election held April 2 it was voted to issue $10,000 in bonds for a bridge and viaduct.

RICHMOND, QUE.—The iron bridge connecting Richmond and Melbourne was swept away by high water on April 7. The structure was owned by the St. Francis Bridge Co. and cost $46,000.

BUILDINGS.

BRUNSWICK, ME.—Prof. F. C. Robinson has charge of obtaining plans for the proposed new library building at Bowdoin College.

BOSTON, MASS.—The following bids were received April 8 by W. H. Miller, Depot Q. M., 170 Summer St., for constructing a barrack at Fort Strong, Long Island, Mass., (1) being for construction, (2) heating apparatus,

(3) electric wiring, and (4) for plumbing: Charles King & Co., 170 Summer St., (1) $28,640, 4 months, (2) $2,544, (3) $900, (4) $2,507; Frederick L. Hodges, 166 Devonshire St., (1) $29,777, 4 months; Mead, Mason & Co., Tremont Bldg., (1) $29,793; Charles E. Currier, 7 Water St., (1) $30,586; James Wilkinson & Co., 20 Hawley St., (3) $270; Columbia Electric Engineering Co., 57 Warren St., (3) $374; Edward Heaton, Park Row Bldg., New York, $450; Hanks Electric Co., 100 Purchase St., (3) $585; Owen F. Glasby & Co., 170 Summer St., (4) $2,900; David Craig, 70 Broad St., Boston, (4) $2,975; W. F. Aikinson & Co., 731 Boylston St., (4) $3,195; Thomas H. Duggan, 10 Cambia St., (4) $3,224; Charles B. Tucker, 477 Tremont St., (4) $3,226; T. F. Murphy & Co., 142 Dorchester Ave., (4) $3,-775.

NEWPORT, R. I.—Bids are asked until April 22 for constructing an addition to the Townsend Industrial School. F. A. Ward, Chn. Com.

NEW YORK, N. Y.—Plans have been filed by Arthur D. Hyde, 60 Liberty St., for a 10-story brick and stone flat, 95 × 92 ft., at West End Ave. and 80th St., to cost about $600,000, C. Steinmetz, Arch., 60 Liberty St.; by Thomas J. McLaughlin, 2649 Broadway, for a 7-story brick tenement, 82 × 95 ft., at Park Ave. and 89th St., to cost about $150,000, Henry Anderson, Arch., 330 Madison Ave.; by John McLaughlin, 346 East 81st St., for four 5-story brick flats, 26 × 83 and 94 ft., at East End Ave. and 86th St., to cost about $85,000, and for two 5-sty brick tenements, 25 × 86 ft., at 86th St., near East End Ave., to cost about $50,000, John Hauser, Arch., 1961 Sixth Ave.; by John Alexander, 358 West 127th St., for two 5-story brick tenements, 25 × 87 ft., at 154th St., near Bradhurst Ave., to cost about $40,000, Joseph C. Cocker, Arch., 243 East 123d St.; by Joseph Hochstein, premises, for two 7-story brick tenements, 25 × 88 ft., at 95 Roosevelt St., to cost about $50,000, M. Bernstein, Arch., 245 Broadway; by Katherine Jackson, premises, for two 6-sty brick tenements, 25 × 88 ft., at 14 and 16 Cherry St., to cost about $50,000, M. Bernstein, Arch.; by Hulda Wittner, premises, for two 6-story brick tenements, 25 × 88 ft., at 314 and 316 East 52d St., to cost about $50,000, M. Bernstein, Arch.; by M. Rosenberg, 89 Roosevelt St., for two 6-story brick tenements, 63 × 52 ft., at 89 to 93 Roosevelt St., to cost about $50,000, M. Bernstein, Arch.; by Henry Hart, 739 Madison Ave., for a 7-story brick and stone flat, 50 × 82 ft., at 63 and 65 Perry St., to cost about $80,000, George F. Pelham, Arch., 503 Fifth Ave.; by Charles Snyder, 235 East 116th St., for two 7-story brick tenements, 25 × 88 ft., at Third Ave., near 158th St., to cost about $52,000, John P. Cleary, Arch., 1 Union Square West.; by Michael Meehan, 710 Trinity Ave., for two 5-story brick tenements, 38 × 100 ft., at 169th St., near Clinton Ave., to cost about $80,000, J. F. Meehan, Arch., 737 Forest Ave.; by W. C. Hunter, 180 St. Nicholas Ave., for a 6-story brick tenement, 50 × 91 ft., at 123d St., near Amsterdam Ave., to cost about $75,000, Emil Ruche, Arch., 902 East 161st St.; by E. C. Potter, 135 Broadway, for two 5-story brick apartment houses, each 25 × 85 ft., at 146th St., near Amsterdam Ave., to cost about $50,000, George F. Pelham, Arch.; by Isidore Ginsberg, for a 7-story brick tenement, 40 × 88 ft., at 249 and 251 Broome St., to cost about $40,-000, Sass & Smallheiser, Archs., 23 Park Row; by Lowenfeld & Prager, for a 6-story brick tenement, 42 × 63 ft., at 60 and 62 King St., to cost about $45,000, George F. Pelham, Arch.

NEW YORK, N. Y.—We are informed that bids will be received at once for erecting the proposed 8-story brick flat, 19 × 89 ft., at 120 East 31st St., to cost about $90,000, for Otto Grimmer, of 68 East 77th St., Copeland & Dole, Archs., 51 Exchange Place.——The East Side Branch of the Y. M. C. A., 3 West 29th St., will erect a new 4-story building, 51 × 100 ft., at 155 East 86th St., to cost about $75,000, James E. Ware & Son, Archs., 3 West 29th St.——Hettie W. Schmidt, 32 West 92d St., writes us that she will erect a 5-story brick and stone dwelling, 22 × 100 ft., at 62 West 92d St., to cost about $40,000, Sass & Smallheiser, Archs., 23 Park Row.——We are informed that A. V. Donellan, 72 West 108th St., will erect a 7-story brick apartment house, 42 × 82 ft., at 60 West Tenth St., to have steam heat, electric lights, etc., and cost about $120,000, H. B. Mulliken, Arch, 284 Fourth Ave.——Press reports state that Willard B. Mitchell is interested in a company which proposes to erect a hotel building at Fifth Ave. and 36th St. The hotel is to be managed by William Taylor, of the St. Denis.——The Associated Merchants' Co. propose to erect a 12-story stone and steel department store building at Sixth Ave. and 26th St., according to reports. John Claflin is interested.

TROY, N. Y.—Press reports state that F. F. Proctor will erect a new theatre here, to cost about $200,000.

WATERTOWN, N. Y.—This city has received an offer of $60,000 for erecting a new public library building.

WHITE PLAINS, N. Y.—A special town meeting will be held April 25 to vote on the question of erecting a new public library building.

ATLANTIC CITY, N. J.—George E. Harding, Postal Telegraph Bldg., New York, is said to be preparing plans for a 7-story hotel building on Pennsylvania Ave.

NEWARK, N. J.—The Thatcher Furnace Co., 36 St. Francis St., will erect a 4-story brick warehouse, 50 × 74 ft., according to reports.——John H. and Wilson C. Ely, 800 Broad St., are said to be preparing plans for a large apartment house on Morton, Broome and Baldwin Sts.

ALLEGHENY, PA.—Bids are asked until May 3 for erecting a school building in the Third Ward. A. C. Latimer, Pres. School Dist.

GREENSBURG, PA.—William Kauffman, 801 Lewis Block, Pittsburg, is said to be preparing plans for the proposed new court house here, to cost about $700,000. Bids will be asked as soon as plans are completed.

MEADVILLE, PA.—Charles W. Bolton & Co., Witherspoon Bldg., Philadelphia, are reported to be preparing plans for the new library building at Allegheny College, to cost about $40,000.

PITTSBURG, PA.—The contract for erecting the proposed 15-story brick office building at Wood St. and Fourth Ave., for the People's Savings Bank, 241 Fourth Ave., to cost about $500,000, is said to have been let to the George A. Fuller Co., Marquette Bldg., Chicago, Ill. Alden & Harlow, Archs., 314 Fourth Ave.——McClure & Spahr are said to be preparing plans for a 15-story office building at 324 to 330 Fourth Ave., for the Keystone Bank, to cost about $500,000.

BALTIMORE, MD.—The following bids were received April 5 by James K. Taylor, Supr. Arch., Treasury Dept., Washington, D. C., for a high pressure boiler plant and rearrangement of plumbing in the sub-basement of the U. S. building, (1) being price for a new plant, (2) price for rebuilding old: Wallace Stebbins & Sons, Baltimore, Md., (2) $14,564; Crook, Horner & Co., Baltimore, Md., (1) $13,064, (2) $10,225; Charles C. Heath & Co., Baltimore, Md., (1) $14,034, (2) $9,578; Blake & Williams, New York, (1) $16,414, (2) $11,669; Gaylord & Eitapenc, Binghamton, N. Y., (1) $13,740, (2) $12,011; Oil City Boiler Works, New York, (1) $16,700; E. Butzler, New York, (1) $15,200, (2) $15,000; Heine Safety Boiler Co., St. Louis, Mo., (1) $13,275.

GOLDSBORO, N. C.—Bids are asked until April 30 for erecting a 3-story brick building, 145 × 37 ft., at the state hospital. J. F. Miller, Supt.

CARTERSVILLE, GA.—L. B. Matthews, Chn. County Comrs., writes us that it will be two or three months before bids are received for erecting the proposed new court house. Plans have not yet been prepared.

ATLANTA, GA.—We are informed that bids were received April 8 for erecting the proposed 8-story brick and steel office building, 59 × 115 ft., at Peachtree and Wall Sts., for the Peters Land Co., to cost about $125,000. J. H. Dinwiddie, Arch., 542 Equitable Bldg.

JACKSONVILLE, FLA.—Bids are asked by the trustees of the Presbyterian Church until April 25 for erecting a new church building. T. V. Porter, Chn. Com.

BIRMINGHAM, ALA.—W. W. Barclay writes us that the Second Presbyterian Church, which was destroyed by the recent storm, will be rebuilt.

FAYETTE, MISS.—The county commissioners have accepted the plans of Andrew J. Brown & Co., of Atlanta, Ga., for the new court house here.

HAZLEHURST, MISS.—The board of supervisors is said to be considering the question of issuing $50,000 in bonds for erecting a new court house and jail.

MERIDIAN, MISS.—Bids are asked until May 6 by the board of county supervisors for erecting a new courthouse. B. V. White, Clk.

ROLLING FORK, MISS.—Reports state that the board of county supervisors has accepted the plans of F. B. & M. S. Hull, of Jackson, Miss., for the proposed new courthouse, to cost about $25,000.

VICKSBURG, MISS.—We are informed that J. Riley Gordon, of Dallas, Tex., is now preparing plans for the new city hall building here, to cost about $40,000.

NEW ORLEANS, LA.—Thomas Sully, Arch., Herman Bldg., writes us that the proposed 8-story brick and steel building for the Morris Land & Improvement Co., at Common and Carondelet Sts., will not be erected before next August.

CINCINNATI, O.—The board of public service will issue $55,000 in bonds for erecting the Wade and Findley St. market houses. Jacob J. Reichel, Arch.

CLEVELAND, O.—Dr. George F. Leick is said to be interested in a plan to erect a new hospital, to cost about $350,000.

CLEVELAND, O.—Knox & Elliott, Archs., 233 Bank St., are said to be receiving bids for the erection of the proposed Spencerian Business College on Euclid Ave.

COLUMBUS, O.—Bids are asked, according to reports, by the board of education until April 30 for erecting the proposed school house on Livingston Ave. David Reibel, Arch., 328½ South High St.

DANVILLE, ILL.—Shepley, Rutan & Coolidge, 122 Ames Bldg., Boston, Mass., are said to be preparing plans for the proposed new buildings at St. Elizabeth's Hospital for the Insane. Congress has appropriated $1,000,000 for the erection of about 20 new buildings. Surveys are now being made.

INDIANAPOLIS, IND.—John H. Stein, 51 Ingalls Block, is said to be preparing plans for a flat building on Delaware St., to cost about $70,000.

MARION, IND.—Press reports state that Richards, McCarty & Bulford, "The Ruggery," Columbus, O., are said to be preparing plans for the proposed Carnegie library building here, to cost about $50,000.

VINCENNES, IND.—The county commissioners are said to have voted to issue $35,000 in bonds for erecting a new jail building.

DETROIT, MICH.—Press reports state that Alderman Coots will erect a 5-story brick business building, at 38 and 40 Gratiot Ave.

CHICAGO, ILL.—Plans have been filed by Andrew O'Donnell for a 3-story brick apartment house, 60 × 104 ft., at 54th St. and Indiana Ave., to cost about $33,000. A. G. Lund, Arch., 602 West 63d St. Frank Burke, Builder, 573 53d St.; by Simeon Lederer for five 3-story brick flats, 148 × 86 ft., at 4801 to 4811 Forestville Ave., to cost about $75,000. H. L. Newhouse, Arch., 4630 Prairie Ave. A. Anderson, Builder, 119 La Salle St.; by Charles Anderson for a 3-story brick apartment house, 50 × 129 ft., at 5329 Lake Ave., to cost about $40,000. Thomas McCall, Arch., 167 Dearborn St. George Williams Co., Builders; by Conrad Bristle for six 2-story brick flats, 22 × 50 ft., at 2538 to 2550 Evanston Ave., to cost about $27,000. Paul Hauser, Arch., Journal Bldg. C. Rasmussen, Builder; by St. Paul M. E. Church, for a 1-story church building, at 60 Harrison St., to cost about $30,000. Brown, Burton & Davis, Archs., Neave Bldg., Cincinnati, O. W. R. Hicks, Builder, Elwood, Ind.; by the Catholic Bishop of Chicago for a 4-story brick school house, 110 × 106 ft., at 8739 to 8747 Exchange Ave., to cost about $55,000. W. J. Brinkman, Arch., 163 Randolph St. Theodore Ostrowski, Builder, 711 Dickson St.

MACOMB, ILL.—The contract for erecting the Western Illinois Normal School Building here is said to have been let to the Tri-City Construction Co., of Davenport, Ia., at $157,800.

FAIRCHILD, WIS.—Bids are asked by the school board until May 1 for erecting a brick school house here. R. H. Hine, Dir.; D. B. Foster, Clk.

MILWAUKEE, WIS.—The board of education has adopted the plans of Buemming & Dick, 1107 Pabst Bldg., for the proposed new school house at Bartlett and Linwood Sts., to cost about $50,000.

CLINTON, IA.—The following bids are said to have been received by Jas. K. Taylor, Supr. Arch., Treasury Dept., Washington, D. C., for erecting the U. S. building here: Peoria Construction Co., Peoria, Ill., $72,383; Paul F. Mueller, Chicago, Ill., $75,600; Congress Construction Co., Chicago, $76,652; General Construction Co., Milwaukee, Wis., $79,957; Charles W. Gindale Co., Chicago, $69,850; Forster & Smett, Minneapolis, Minn., $64,970; M. Yager & Son, Danville, Ill., $63,264; Augu & Gindell, Chicago, $68,300.

MINNEAPOLIS, MINN.—The Chamber of Commerce has filed plans for a 9-story brick building at Fourth St. and Fourth Ave., S., to cost about $400,000.——I. R. Blery will erect a 4-story brick flat at 127 East 14th St., to cost about $60,000.——The Yale Realty Co. will erect a 3-story brick apartment house at 114 West Grand St., to cost about $51,000——It is stated that the Augsburg Seminary will erect a 2-story brick building at 725 21st St., to cost about $35,000.——George B. Dayton will erect a 3-story brick store building, 100 × 115 ft., at 710 Nicollett Ave., to cost about $40,000.

NORTHWOOD, N. DAK.—Bids are asked by the clerk of the school board until April 23 for erecting a brick school house.

CENTRALIA, MO.—The people have voted against the proposed issue of $75,000 in bonds for erecting a new courthouse.

ST. JOSEPH, MO.—The Letts-Spencer Grocery Co. writes us that plans are now being prepared by Frank Crocker, of Marshalltown, Ia., for erecting a 6-story brick warehouse, 90 × 125 ft.

UTE, COLO.—Bids are asked by W. A. Jones, Indian Comr., Washington, D. C., until May 6 for erecting a brick dormitory, brick warehouse, water and sewerage systems, gas machine house and acetylene gas machine fixtures at the Southern Ute Agency. Plans and specifications may be seen at the Indian warehouse, 235 Johnson St., Chicago, Ill.; 77 Wooster St., New York, N. Y.; 1208 Howard St., Omaha.

GALVESTON, TEX.—Bids are asked until April 22 for erecting a building for the Galveston Orphans' Home. George B. Stowe, Arch.——The contract for erecting the new freight sheds along the water front for the Mallory Line is said to have been let to P. J. Callan, 2215 37th St., at about $30,000.

HOUSTON, TEX.—Bids are asked by the trustees of the Houston Lyceum and Carnegie Library Assn. until May 15 for erecting the proposed new library building, to cost about $45,000. H. H. Dickson, Chn. Bldg. Com.

EUGENE, ORE.—Press reports state that W. J. Rogers will erect an opera house and hotel, to cost about $60,000.

JACKSON, CAL.—Bids are asked by the county commissioners until May 6 for constructing a building at the county hospital. C. L. Culbert, Clk.

SAN FRANCISCO, CAL.—Bids are asked by J. M. Marshall, Asst. Q. M. Gen., until May 1 for constructing a hospital steward's quarters at Fort McDowell, and until May 3 for constructing officers' quarters, barracks, hospital, guardhouse, etc., at Fort Baker, Cal.

SANTA BARBARA, CAL.—The council is said to have received plans for a new high school building on De la Vina St., to cost about $60,000.

STOCKTON, CAL.—A special election will be held on April 29 to vote on the question of issuing $150,000 in bonds for erecting a new high school building.

TORONTO, ONT.—It is stated that the government has appropriated $200,000 for erecting a new science building on College St., for Toronto University.

PLUM COULEE, MAN.—Bids are asked until April 26 for erecting an elevator for the Plum Coulee Farmers' Elevator Co. Peter Krocker, Secy.

WATER-WORKS.

BANGOR, ME.—The water board has been directed to ask for bids for furnishing and installing a 5,000,000-gallon pumping engine, and for the purchase of the present one. M. A. Sinclair, Supt.; W. I. Brown, Clk.

BRUNSWICK, ME.—The directors of the Merrymeeting Park Association will install small works to be operated by an electric motor.

KITTERY, ME.—M. M. Urann is reported as completing plans for works to cost $125,000, construction on which will commence next month.

TOPSHAM, ME.—W. W. Gana, Town Clk., writes us that no efforts have ever been made looking for the construction of works, as has recently been reported.

CONCORD, N. H.—The question of building a reservoir and extending the works is being considered. V. C. Hastings, Supt.

DURHAM, N. H.—We are informed that no action towards constructing works will be taken before July.

JAFFREY, N. H.—Albert Annett, Chn. Com., writes us that no action will be taken to obtain a charter and to appoint a committee to take charge of the matter of securing works until next March. Pop., 1,900.

ANDOVER, MASS.—The legislature has been asked to grant this place authority to issue $40,000 in bonds for extending the works.

SALEM, MASS.—J. F. Hurley, Mayor, writes us that the city council passed an order asking the legislature for permission to issue $50,000 in bonds for mains, but it was vetoed by the mayor.

SCITUATE, MASS.—We are informed that the contract for constructing works has been let to Moore & Co., Pemberton Bldg., Boston. There will be about 14 miles of pipe, a standpipe, 25×75 ft., a pumping plant, etc. E. H. Gowing, Des. Engr., 12 Pemberton Square, Boston.

WORCESTER, MASS.—The finance committee has voted to recommend an order authorizing $100,000 for a dam at Holden and $50,000 for extending mains. J. G. Brady, Water Com.

NEW LONDON, CONN.—Bids will be asked at once by the water department for furnishing and laying about 1,-200 tons of 12, 16 and 20-in. mains. The proposed improvements to the works will cost about $250,000.

NORWALK, CONN.—C. N. Wood, Cy. Engr., estimates that it will cost $8,000 for repairing Grupe's Dam.

BINGHAMTON, N. Y.—E. B. Weston, of Providence, R. I., is reported as making surveys for a mechanical filtration plant.

BROOKLYN, N. Y.—The court has decided that the Woodside Water Co. has a right to lay mains in Brooklyn, Long Island City, Newtown, Flushing or Jamaica. The company has offered to furnish Long Island City with 12,000,000 gallons of water a day.

COHOES, N. Y.—Bids are asked until May 6 for furnishing about 9,000 ft. of 4 and 6-in. cast iron water pipe, as stated in our advertising columns. Jas. Aitken, Pres. Bd. Water Comrs.; A. T. Kniffin, Secy.

FONDA, N. Y.—The following bids were received April 8 for constructing a reservoir and pipe line for the Fonda Water-Works Co.: Hallinan Bros. & Fenton, Little Falls, $17,900; F. N. Lewis & Co., Herkimer, $18,600; J. N. Sigrist, Utica, $20,300; J. R. Briggs & Co., Fonda, $16,988.-51; Martin & Co., Utica, $19,500; Snell Bros., Fonda, $17,-866.24; John Vaughn, Stamford, N. Y., $16,429.

GOSHEN, N. Y.—Bids are asked until June 1 for excavating a canal, as stated in our advertising columns. V. K. Mills, Des. Engr.; H. J. Yerg, Clk.

ILION, N. Y.—It is proposed to extend the mains. C. M. Grey, Pres. Water Comrs.

MIDDLETOWN, N. Y.—Bids are asked until April 27 for furnishing the materials and for constructing a storage reservoir, as described in our advertising columns. J. M. Hill, Clk.; W. D. Stratton, Pres. Bd. Water Comrs.

NEWBURGH, N. Y.—J. J. R. Croes, New York, has submitted his report on the proposed new works, approving the plans for a masonry dam on Plattekill Creek. Address President Sneed and Superintendent Shannon.

NEWTOWN, (L. I.), N. Y.—The Wyckoff Heights Water Co. and the Citizen's Water Supply Co. have been merged into one concern. Cord Meyer, Pres.; G. G. Meyer, Secy.

OSWEGO, N. Y.—Peter Milne, of New York, has been appointed consulting and constructing engineer for the installation of a mechanical filtering plant at Oswego, and will also have in charge the general improvement of the distribution plant.

PARISH, N. Y.—E. D. Edick, Clk., writes us that the village will not put in works this season, as has been reported.

PLEASANTVILLE, N. Y.—Byrne & Darling, White Plains, N. Y., have been awarded the contract to build works, according to reports.

POUGHKEEPSIE, N. Y.—The board of public works proposes to extend the intake into the channel at once. Address Superintendent Fowler.

SCHENECTADY, N. Y.—Bids are asked by the water commissioners until noon April 19 for furnishing 500 ⅝, ¾ and 1-in. water meters.

NEWARK, N. J.—Engineer Sherrerd has presented plans to the water commissioners for a reservoir at Cedar Grove and pipe line to cost $1,500,000. It is likely that the contract will be let in May. There will be three dams, one of which will be 2,500 ft. long.

WOODSTOWN, N. J.—The council proposes to improve the works.

WEEHAWKEN, N. J.—The Pine Bluff Water Co. has been incorporated with a capital of $100,000 by G. A. Sanders, of Boston, Mass. Wm. F. Rusch, of Hoboken, N. J. and Thos. Wright, of Weehawken.

BEACH CREEK, PA.—Parties from Lock Haven, Pa., propose to build works for this place and Eagleville.

CHESTER, PA.—The city will condemn land along Ridley Creek for its proposed new works. G. E. Darlington, Borough Solicitor.

CORAOPOLIS, PA.—The Stowe Township Water Co. has been incorporated by Thos. R. Pittock, J. H. Mueller and E. G. Hartje, of the Pittsburg Refining Co. of this place.

DUBOIS, PA.—Bids are asked May 21 for furnishing the materials and for constructing works, as stated in our advertising columns. W. A. Engleman, Chn. Com.; Knight & Hopkins, Engrs., Rome, N. Y.

HARRISBURG, PA.—Councilman Hoverter has presented an ordinance authorizing the water commissioners to act with the committee in engaging an engineer to prepare plans for a filter plant.

NEW FLORENCE, PA.—It is proposed to build works to cost $26,100, and also a sewerage system. C. P. Collins, Engr., Johnstown, Pa.

PITTSTON, PA.—The Spring Brook Water Supply Co. has purchased the works at this place from the Erie R. R. Co. L. A. Watres, Pres.

CHRISTIANSBURG, VA.—Reports state that Sim Poff has been awarded the contract for constructing works. The water supply will be secured from a spring two miles from town.

RICHMOND, VA.—Capt. Morgan R. Mills has been awarded the contract for a 300,000-gallon filter for the new natatorium.

ASHEVILLE, N. C.—B. M. Lee, Cy. Engr., writes us that this place will vote May 6 on the question of works to cost $273,000.

CONCORD, N. C.—J. W. Cannon has purchased control of the works owned by P. B. Fetzer, and it is understood will make improvements.

ATLANTA, GA.—The council has voted $13,600 for new mains in Capitol Ave.——J. M. Alexander & Co., of Atlanta, have been awarded the contract at $3,450 for a traveling crane at the pumping station.

CHIPLEY, FLA.—This place has voted to issue $10,000 in bonds for works.

NAPOLEONVILLE, FLA.—A. J. Kockritz, Secy. Council, writes us that plans for works will be submitted to the council in a few days, after which an election to vote on the question will be held. If the vote is favorable bids will be wanted in about 40 days. Pop., 1,100. Coleman & Malochee, Engrs., New Orleans, La.

PALATKA, FLA.—J. N. Blackwell, Cy. Clk., writes us that it is probable a vote on the matter of works will be taken later.

SHEFFIELD, ALA.—L. S. Proctor, Cy. Engr., writes us that the city has not yet sold the necessary bonds for building the proposed works.

GLOSTER, MISS.—M. D. Crawford writes us that the city has contracted for specifications for works. Pop., 1,660.

ROSEDALE, MISS.—O. D. Thomas, Cy. Chn., writes us that the contract for works and an artesian well will be let next month. Pop., 750.

DYERSBURG, TENN.—Bids are asked until June 1 for the purchase of a 20-year franchise for works and an electric plant. There will be 25,700 ft. of mains, a standpipe, a 2,000,000-gallon pump, etc. W. A. Fowlkes, Jr., Mayor.

GALLATIN, TENN.—The legislature has authorized this place to build works.

JOHNSON CITY, TENN.—W. B. Harrison, Supt. and Secy., writes us that the reservoir will be deepened or enlarged and about a mile of 8, 10 and 12-in. pipe will be laid for the Wantanga Water Co.

WINCHESTER, TENN.—Dick Taylor writes us that this city will issue $30,000 in bonds for works and an electric plant.

AKRON, O.—The Akron Water Co. proposes to build a 10,000,000-gallon reservoir, according to reports.

ALLIANCE, O.—Henry R. Worthington, of New York, has been awarded the contract for a pumping engine at $9,195.

CANTON, O.—This place voted against issuing $100,000 in bonds for new works. P. H. Weber, Cy. Engr.

CINCINNATI, O.—G. Bouscaren, Ch. Engr. Water-Works, is preparing plans for two rectangular boiler houses 60x180 ft. each; two round pump houses of 100 ft. diameter and two sets of coal sheds, with chutes and elevators, covering an area of 70 by 250 ft. One set of these buildings will be erected at the pumping station at California and the other at Pendleton. The cost of the buildings will be about $500,000. They will be constructed of stone and iron throughout and will be entirely fireproof. It is intended to let the contracts for their erection before the end of summer. The laying of the pipe to connect the new water-works with the city mains will require about a year, it is believed, and this will not be begun until all the other parts of the system are about completed. There has been no work on the settling reservoirs during the past winter, but it is expected that it will be resumed this week. The contract for this work was awarded to August Henkel at $1,125,000 and sublet by him to R. M. Quigley & Co., of St. Louis. They are to build two settling reservoirs of 300,000,000 gallons each.

CLEVELAND, O.—The following bids were received April 3 for furnishing a 30-in. and a 33-in. riveted steel water pipe: The Carroll-Porter Boiler & Tank Co., Pittsburg, Pa., $10,835; Cleveland Steam Boiler Works, $11,700, and $12,840; Variety Iron Works Co., Cleveland, $15,762.

CLEVELAND, O.—Bids are asked until May 11 for furnishing 3 to 60-in. gate valves and 250 4-in. and 30 6-in. hydrants, as may be required during the year, as stated in our advertising columns. Chas. P. Salen, Dir. Pub. Wks.

COLUMBUS, O.—Sam'l M. Gray, of Providence, R. I., has recommended the construction of works and a filtration plant to cost about $4,000,000. The water supply will be secured from the Scioto River and there would be three standpipes and a dam 52 ft. high.

FINDLAY, O.—H. J. Hansbrock, of Cleveland, O., has offered to buy the works from the city for $200,000, to which they will make $60,000 worth of improvements.

HOLGATE, O.—This place has voted to issue $15,000 in bonds for works and an electric plant. J. H. Smith, Clk.

MILFORD, O.—H. S. Brunson, Clk., writes us that this place has voted down the proposition to build works.

MONTPELIER, O.—This place has voted to issue $6,000 in bonds for works and an electric plant.

BLOOMFIELD, IND.—C. O. Lucas & Co., of Greenville, O., have secured the franchise for works to consist of about four miles of mains, 40 hydrants, two 750,000-gallon pumps, two 25 HP. gasoline engines, standpipe, 16x50 ft., etc.

GREENWOOD, IND.—This place has voted to grant a franchise to Lewis K. Davis, Engr., Indianapolis, to build works and an electric plant and work will begin at once.

MARION, IND.—Bids are asked until April 30 for furnishing the materials and for constructing works, as described in our advertising columns. Postponed from April 10. E. Hulley, Supt.; J. D. Cook, Consult. Engr., Toledo, O.

SYRACUSE, IND.—The Olds Construction Co., of Indianapolis, has been awarded the contract at $18,300 for constructing works.

VINCENNES, IND.—The B. & O. R. R. Co. will build a pumping station on the Wabash River.

DETROIT, MICH.—Bids are asked until May 8 for furnishing 36 and 42-in. cast iron water pipe, as stated in our advertising columns. J. W. McGrath, Pres. Bd. Water Comrs.; B. F. Guiney, Secy.

MACKINAC ISLAND, MICH.—In our issue of March 29 we stated that P. W. Keating, of Detroit, had been awarded the contract for constructing works, sewers and an electric plant to cost about $100,000. We are informed that this report is incorrect, and that Mr. Keating has nothing to do with the work. The general contractors for the power plant are the Seidler-Miner Electric Co., of Detroit, who has sublet the work as follows: Generators, General Electric Co.; engines, Russel Engine Co.; steam fitting, Arbuckle, Ryan & Co.; pumps, Laidlaw-Dunn-Gordon Co.; boilers, McGregor & Co., Cheboygan, Mich. The company holding the franchise for these improvements has let the contract for the pipe to the U. S. Cast Iron Pipe & Foundry Co.; sewer pipe to Little & Co., of Detroit, and that for the valves and hydrants to the Michigan Brass & Iron Works. The total of the contract is about $90,000. Field & Hinchman, Supervising Engrs., Majestic Bldg., Detroit.

ALEDO, ILL.—Bids are asked until April 22 for constructing a steel standpipe, storage reservoir, etc. Geo. C. Morgan, Engr., 808 Royal Insurance Bldg., Chicago, Ill.; W. H. Morrison, Chn. Com.

BREESE, ILL.—A. C. Fangmeyer, Clk., writes us that it is not known when the city will have works.

JOLIET, ILL.—H. A. Stevens, Cy. Engr., writes us that the specifications for extending the works at a cost of $240,000 are in the hands of the printer.

MOLINE, ILL.—D. W. Mead, First National Bank Bldg., Chicago, has been engaged to prepare plans for new mains and a filtration plant. Bids will be asked at once for furnishing a 5,000,000-gallon pump. Address Mayor Wessell and Alderman Sleight.

AMHERST, WIS.—Bids are asked until April 29 for constructing works. A. J. Smith, Pres.

FORT ATKINSON, WIS.—Bids are asked until 3 p. m. April 23 for furnishing the materials and for constructing works to include a masonry dam, brick water tower, pumping plant, etc.; estimated cost $35,000; C. F. Loweth, Engr., 549 Marquette Bldg., Chicago, Ill., and St. Paul, Minn.; J. H. Hayes, Chn. Com.

GRINNELL, IA.—J. C. Goodrich, Supt., writes us that the city will drill an artesian well this summer, to be 12 ins. at the top and 6 ins. at the bottom and 2,000 ft. deep.

LE MARS, IA.—The German State Bank has purchased the works. Fred. Becker, Jr., Secy.

BUFFALO LAKE, MINN.—Bids are asked until 7.30 p. m. April 18 for furnishing the materials and for constructing works. Fairbanks, Morse & Co., St. Paul, Minn.; E. W. Rebsfock, Recdr.

EAST GRAND FORKS, MINN.—Reports state that this place has voted to issue $15,000 in bonds for works and an electric plant. Not No. Dak., as noted last week. Address J. R. Johnson.

MINNEOTA, MINN.—This place has voted to issue $12,000 in bonds for works.

RUTHTON, MINN.—The Recorder writes us that the water-works program was defeated at the spring election.

ATCHISON, KAN.—Reports state that eastern parties have purchased the works, gas and electric plants, and street railway, all of which, it is intended to improve.

HASTINGS, NEB.—It is stated that J. Burns, of Lincoln, Neb., has been awarded the contract at $7,400 for constructing works.

BROOKINGS, S. DAK.—J. W. Heston writes us that the city will build works to cost about $50,000. The water supply will be received from deep wells.

ELK POINT, S. DAK.—This place has voted to issue $8,000 in bonds for works and $5,000 for a gas plant, according to reports.

MITCHELL, S. DAK.—Prof. E. C. Chilcott, of the Brookings Agricultural College has reported on the condition of the soil for securing a water supply.

VALLEY SPRINGS, S. DAK.—The question of works is reported as being considered. Not Minn., as reported last week.

YANKTON, S. DAK.—Bids are asked until April 30 for constructing works at the Yankton Indian Boarding School. W. R. Jones, Indian Comr., Washington, D. C.

CASPER, WYO.—Bids are asked until May 15 for furnishing 100 tons of 6-in. water pipe, 7,500 lbs. of soft lead and 250 lbs. of packing. E. B. Shaffner, Clk.

KAHOKA, MO.—J. D. Thompson writes us that it is likely that the question of works will be submitted to the voters in May.

NEVADA, MO.—Louis Landmann writes us that the franchise with the Nevada Water Co. expires Aug. 31, 1903. The company has asked for a renewal at this time, as it wishes to make improvements to the works.

LONOKE, ARK.—The Arkansas Rice Co. has been organized with a capital of $10,000. Geo. Sibley, Pres.; W. H. Vivian, Secy.

MENA, ARK.—John E. McLelland, Mayor, writes us that the council has decided to build a reservoir and standpipe for water-works, and it is desired to secure prices an hydrants, pipe, standpipe, etc. L. S. Wilson, Recdr.

FORT McINTOSH, TEX.—It is proposed to build works at Fort McIntosh. J. L. Parkinson, Supt. Construction; Thos. Farnsworth, Engr.; Q. M. Dept., U. S. A., San Antonio, Tex.

FORT WORTH, TEX.—Dan'l W. Mead, Engr., First National Bank Bldg., Chicago, has submitted a report for extending the works for an increased water supply from artesian wells at a cost of $127,000. J. B. Hawley, Cy. Engr.

MARTIN, TEX.—John W. Maxey, of Houston, Tex., is reported as considering the question of works for this place.

DENVER, COLO.—The aldermen have authorized the Denver Union Water Co., to extend its mains 22 miles, set 170 hydrants, etc.——It is proposed by the city to put in either a gasoline or an electric plant to operate the pumping plant in City Park; estimated cost $10,000.

FORT COLLINS, COLO.—This place has voted against issuing $185,000 in bonds for extending the works. F. R. Baker, Mayor.

BAKER CITY, ORE.—O. C. Street, Supt., writes us that this city will vote April 29 on the question of issuing $100,000 in bonds for extending the works and building an electric plant. J. G. Kelley, Engr., Portland, Ore.

WESTON, ORE.—The question of issuing $5,000 in bonds for repairing the works will soon be voted upon.

ROSEBURG, ORE.—Construction of a 12-mile flume from Canyon Creek to Ash Placer Mines, will soon begin. H. F. Gaeley is interested.

SPOKANE, WASH.—The Spokane Land & Water Co. has been incorporated with a capital of $500,000 by W. L. Benham, of Spokane, and A. L. Hawley, of Seattle, Wash.——F. P. Weymouth, Pres. Bd. Pub. Wks., writes us that plans for extending the works have been prepared but he does not think that any provision for extensions will be made this year.

BAKERSFIELD, CAL.—It is proposed to construct an irrigation system to furnish water to the Midway District and also to construct a pipe line to be about 12 miles long. Canfield & Chanskor are interested.

EUREKA, CAL.—The council has adopted a resolution authorizing the issuing of $205,000 of bonds for works and a sewerage system.

SACRAMENTO, CAL.—Rudolph Hering, 100 William St., New York, has been employed by the city to pass upon plans of the city surveyor for improving the works, to cost $500,000, and for the sewers, to cost $250,000.

SANTA ROSA, CAL.—G. F. Alkardt, of Oakland, Cal., has been engaged to prepare plans for a water pipe line from Peter's Spring to the pumping station. J. S. Sweet, Mayor.

BROCKVILLE, ONT.—The Holly Mfg. Co., of Lockport, N. Y., has been awarded the contract at $16,000 for furnishing a 4,000,000-gallon pumping engine.

IROQUOIS, ONT.—This place has voted to buy the works.

NORTH TORONTO, ONT.—The council proposes to purchase a gasoline engine for the pumping station.

PETERBORO, ONT.—Henry Best, Chn. Water Com., writes us that the city will endeavor to purchase the works during the present year.

GOLDEN, B. C.—The question of works and electric lights is being considered.

PHOENIX, B. C.—This city will issue $20,000 in bonds for works this season, according to reports.

REVELSTOKE, B. C.—City Engineer Tracey of Vancouver, B. C., Can., is reported to have been engaged to prepare plans for improving the works, to cost $30,000. The city recently purchased the water and light plants for $60,000.

SEWERAGE.

BENNINGTON CENTER, VT.—The council is said to have engaged Garnett D. Baltimore, of Troy, N. Y., to make surveys for the proposed system here, to cost about $10,000.

DEDHAM, MASS.—Frederic C. Cobb, Clk. Bd. Sewer Comrs., writes us that the following lowest bids have been received for constructing a system: Newman Construction Co., Providence, R. I., section B $29,350, C $21,620, E $10,218, total $61,188; Frank A. Gammino, Providence, R. I., section A $11,201, D $6,525, total $17,726. There were 17 bidders on the work.

NEWTON, MASS.—Bids are asked until about May 1 for constructing 650 ft. of 20 x 30-in. brick sewer. Irving T. Farnham, Cy. Engr.

PEABODY, MASS.—We are informed that no plans or contract for sewage disposal will be made this year. Andrew N. Jacobs, Chn. Selectmen.

CUBA, N. Y.—H. F. Gillette, Village Pres., writes us that this town does not contemplate the building of a system.

NEW YORK, N. Y.—Bids are asked by the department of sewers, 21 Park row, until April 24 for constructing sewers in the Boroughs of Brooklyn and Manhattan. Jas. Kane, Comr.

SANDY HILL, N. Y.—Bids are asked by the board of sewer commissioners until April 29 for constructing a system, as stated in our advertising columns. John W. Burke, Consult. Engr., 45 Broadway, New York.

TRENTON, N. J.—The board of managers of the state hospital has referred the question of a system at the institution, for which $22,500 has been appropriated, to the committee on grounds, which will make a report on May 2.

CARNEGIE, PA.—James D. White, Engr., 730 Park Bldg., Pittsburg, writes us that this city has sold $20,000 in bonds for sewer extensions, but the letting of contracts may be deferred for a time.

EDINBORO, PA.—The people of East Washington borough are said to have voted to issue $20,000 in bonds for constructing a system.

NEW FLORENCE, PA.—Reports state that the council has decided to construct a system and water-works.

PHILADELPHIA, PA.—The council is said to have appropriated $300,000 for constructing main sewers.

MANCHESTER, VA.—We are informed that the West Manchester Land Co. will not construct sewers nor water-works this spring or summer, as was recently reported. A. Adamson, Secy.

FLORENCE, ALA.—It is stated that this city will spend $5,000 for a storm water sewer at the west end of Tennessee St.

JOHNSON CITY, TENN.—J. A. Summers, Mayor, writes us that the council has taken no steps toward constructing a system.

DANVILLE, KY.—Bids are asked by the sewer committee until May 2 for constructing about 8,700 ft. of 10-in. and 25,300 ft. of 8-in. pipe sewers, with three septic tanks, as stated in our advertising columns. Alvord & Shields, Engrs., Hartford Bldg., Chicago, Ill.

CLEVELAND, O.—The board of control has received the following lowest bids for sewers: Axtell St., John Potts & Co., $2,996; Trot St., C. T. McCracken & Co., $4,701; Woodland Hills Ave., William Eggers, $5,845; Union St., Beers & Doolittle, $1,615; Adelpha St., C. F. Kuentz, $3,573; Cable St., C. F. Kuentz, $3,414; East Ave., Reaugh Construction Co., $2,671; Finn St., C. F. Kuentz, $2,831; Marble St., Campbell Bros., $1,481; Sawyer St., William J. Townsend, $2,627.

FINDLAY, O.—Contracts will probably be let in July for constructing a brick sewer in Liberty St., and a pipe sewer in Elm and Sandusky Sts., to cost about $29,000. John W. S. Riegle, Cy. Engr.

SOUTH BROOKLYN, O.—At the election on April 1 this town voted to issue $30,000 in bonds for constructing sewers.

TOLEDO, O.—Bids are asked until April 29 for constructing a pipe sewer in Leonard and Elmore Sts., and until May 13 for constructing pipe sewers in several alleys. J. E. Connell, Cy. Clk.

CRAWFORDSVILLE, IND.—Bids are asked until May 20 for constructing a system of sewers. E. S. Simpson, Cy. Engr.

WAUWATOSA, WIS.—Bids are asked until April 30 for constructing about 4½ miles of sewers in this city. Edward Coulthard, Cy. Clk.

PIPESTONE, MINN.—Bids are asked until May 7 for constructing a system at the Indian School here. W. A. Jones, Comr. Indian Affairs, Department of the Interior, Washington, D. C.

ST. PAUL, MINN.—Bids are asked by the board of public works until April 22 for constructing about 300 ft. of 72 x 36-in. sewer tunnel in Toronto Ave. F. O. Hammer, Pres. Bd.; C. H. Bronson, Clk.

KANSAS CITY, MO.—Bids are asked until April 18 for constructing the proposed O. K. Creek sewer, requiring about 9,655 ft. of 78-in. brick sewer and 366 ft. of 90-in. sewer, to cost about $100,000. Robert W. Waddell, Cy. Engr.

TERRELL, TEX.—M. P. Kelly, of Gainesville, contemplates the formation of a company to construct a system in this city, to cost about $10,000, according to reports.

PULLMAN, WASH.—The legislature has appropriated $5,000 for sewers and $10,000 for water-works at the Washington Agricultural College. W. J. Roberts, Prof. of Civil Engineering, may be addressed.

CHICO, CAL.—Press reports state that a special election will be held in May to vote on the question of issuing $40,000 in bonds for constructing a system.

HANFORD, CAL.—The trustees are said to have received the following bids for constructing the proposed system: W. M. Heafey, $15,468; William Wood, $17,000; W. M. Wallace, $17,621; Williams, Bilser & Co., San Francisco, $16,487; Bernard Ransome, Oakland, $21,900; W. D. Trewhitt, $16,200 (accepted); Dave Gamble, $23,901; The Kutner-Goldstein Co., $19,000; James Stanley, $15,735.

RIVERSIDE, CAL.—The council has passed a resolution providing for the construction of a sewer in Orange St. C. R. Stibbens, Cy. Clk.

SAN FRANCISCO, CAL.—The board of public works is said to have asked for an appropriation of $221,028 for constructing new sewers. C. E. Grunsky, Cy. Engr.

SAN FRANCISCO, CAL.—Bids are asked until May 6 for constructing a system at Fort Point, Cal. J. M. Marshall, Chief Q. M.

VISALIA, CAL.—Local papers state that a special election will soon be held to vote on the question of issuing 80,000 in bonds for constructing a system.

GARBAGE DISPOSAL—STREET CLEANING

CHICOPEE, MASS.—R. D. DeWitt, Secy. Bd. of Health, writes us that the following bids were received April 10 for collecting the garbage, etc., for one year, from May 1: Jos. Kirby, Willimansett, Mass., $397; J. H. Smith, Chicopee Falls, $425; Jas. Patterson, Granby Road, Chicopee, $470; Patrick J. Bowen, Chicopee Falls, $470; T. J. McElligett, 77 Montgomery St., Chicopee Falls (accepted), $470; Geo. McQueen, Chicopee Falls, $475; Thos. D. Walsh, Chicopee Falls, $475; Xavier Lapolice, Chicopee Falls, $475; M. H. Linnehan, Chicopee Center, $480; W. A. Chilson, Chicopee Falls, $475; Henry Mason, Chicopee Falls, $480. The following are the bids for street sprinkling: For Willimansett—Zacher & Pelland, $388; Adjutant Tremblay, $471; Jos. Trembiay, $444; Sam'l Beauleau, $415; P. M. Shea & Son, $665; Jas. Ingham, $427; Frank Menard, $427; Chas. F. Leonard, $665. For Chicopee Center and Falls—C. F. Leonard, $1,824; John J. Healey, $1,828; M. C. Healey, $1,905; Patrick Baker, $1,913; Cordner Bros., $1,944; P. M. Shea & Sons, $2,037.

ATLANTA, GA.—Mayor Mims is urging the construction of two new garbage crematories. Geo. Hope, Ch. Sanitary Dept.

DAYTON, O.—The question of building a temporary garbage crematory is being considered. An Indianapolis company is reported to have offered to collect and dispose of the waste.

FINDLAY, O.—This place has voted on the question of building a crematory, to cost about $8,000.

CHICAGO, ILL.—Bids will soon be asked by Superintendent Doherty, of the street department, for furnishing and erecting a garbage crematory of 100 tons capacity.

FORT D. A. RUSSELL, WYO.—Bids are asked until May 8 for furnishing the materials and for constructing a garbage crematory at Fort D. A. Russell. Maj. J. W. Pope, Ch. Q. M., U. S. A., Denver, Colo.

STREETS AND ROADS.

TOPSHAM, ME.—Eugene Thomas, Chn. Selectmen, writes us that this town will purchase, in about two weeks, a stone crusher to have a capacity of about 100 tons a day.

PORTSMOUTH, N. H.—We are informed that the legislature has appropriated $20,000 for continuing the construction of the Ocean Highway along the seacoast. A. F. Howard, of Portsmouth; William H. C. Follansbee, of Exeter, and Warren Brown, of Hampton Falls, have been appointed a committee to take charge of the work.

BOSTON, MASS.—Bids are asked by the Massachusetts highway commission, 20 Pemberton Square, until April 18 for building about 2,100 ft. of state highway in the town of Williamsburg and 2,500 ft. in the town of Palmer.

WELLFLEET, MASS.—Bids are asked by the selectmen until April 20 for building a stone road from the Mercantile wharf to the postoffice square.

KILLINGLY, CONN.—Bids are asked by the board of selectmen until April 20 for constructing about 7,920 lin. ft. of gravel road.

MERIDEN, CONN.—W. S. Clark, Cy. Engr., writes us that bids will be asked as soon as plans are completed for constructing about 3,500 sq. yds. of asphalt pavement on State St., to cost about $10,000.

SARATOGA SPRINGS, N. Y.—Bids are asked by the sewer, water and street commission until April 23 for furnishing crushed stone for street work. H. E. Thomas, Clk.

CAMDEN, N. J.—The council is considering the question of paving Mount Ephraim Ave. with asphalt.

CAMDEN, N. J.—The stone road committee of the board of freeholders is said to have received the following bids for a stone road running from near station No. 32, at the White Horse stone road in Greenland, along the Warrick road to station 155, in Haddonfield: B. & J. M. Shanley Co., $14,000; John Quinlan, South Amboy, $14,643; B. F. Sweeten & Son, $14,998; Rocky Hill Construction Co., $17,000; Trenton Stone Road Construction Co., $14,400.

JERSEY CITY, N. J.—Bids are asked by the board of street and water commissioners until April 23 for the improvement of Foye Place, Sherman and McAdoo Aves. Geo. T. Bouton, Clk.

PLAINFIELD, N. J.—The street and sewer committee will ask for an appropriation of $26,000 for street and sewer improvements this season.

WASHINGTON, N. J.—Bids are asked by the board of chosen freeholders until May 4 for constructing a macadam road. A. W. Cutler, Dir. Bd.

ERIE, PA.—B. E. Briggs, Cy. Engr., writes us that the case is now before the courts testing the validity of sale of bonds for paving State and Peach Sts.

WASHINGTON, D. C.—Bids are asked by the district commissioners until May 4 for about 100,000 cu. yds. of grading on certain streets and avenues, as stated in our advertising columns.

NEW MARTINSVILLE, W. VA.—W. J. Alexander, Cy. Engr., writes us that he is now preparing plans and specifications for brick paving for this season, to cost about $25,000.

SPARTANBURG, S. C.—Bids are asked until May 4 for constructing about 15,000 sq. yds. of granite block and 13,000 sq. yds. of brick pavement, as stated in our advertising columns. F. H. Knox, Cy. Engr.

BESSEMER, ALA.—Bids are asked until May 7 for grading, curbing and sidewalking a number of streets, requiring about 17,000 ft. of 5-in. granite curb, 2,000 cu. yds. of earth excavation and 3,000 cu. yds. of chert. E. L. Mitchell, Cy. Clk.

NASHVILLE, TENN.—W. M. Lefwich, Jr., Cy. Engr., sidering the following appropriations: $23,500 for paving the Public Square with brick, $24,000 for paving 1st St. with granite, $14,500 for paving Broad St. with brick, and $8,000 for paving Church St. with granite.

LOUISVILLE, KY.—Bids are asked by the board of public works until April 18, postponed from April 9, for paving the streets around the city hall, to cost about $65,000.

AKRON, O.—Bids are asked by the board of city commissioners until April 20 for paving Mill and Ash Sts. W. A. Durand, Clk.

CLEVELAND, O.—The council has passed ordinances providing for the paving and improving of portions of five streets. H. H. Burgess, Cy. Clk.

LIMA, O.—C. E. Lynch, Cy. Clk., writes us that legislation has been begun for paving West High St. with brick and block asphalt. There is no intention of paving Grand Ave.

WILLOUGHBY, O.—Press reports state that this town will issue $10,000 in bonds for street improvements.

SIDEWALKS.—Kansas City, Mo.—The follow[illegible] the prices at which contracts were let April 4, 190[illegible] con- structing sidewalks during the year: Granitoid [illegible] 13.99 cts. a lin. ft., 17,910 ft. 13.68 cts., 4,200 ft. [illegible] cts.; pressed brick, 6,600 ft. 8 1-5 cts.; curbing, 2,3[illegible] cts., 4,160 ft. 54½ cts., 450 ft. 54 cts., 2,825 [illegible] 74½ reset 18 cts. a lin ft.; plank sidewalks, 885 ft. [illegible] to be 1,100 ft. 37 3-10 cts., 750 ft. 36 1-5 cts., 130 ft. [illegible] cts. 1,400 ft. 35⅞ cts., 500 ft. 37 cts., 264 ft. 34¼ cts. [illegible] 29 cts.; planting trees, 390, $1.50 each.

LAYING WATER MAINS.—New York, N. [illegible] The Northwestern Construction Co., 30 Broad St., sub[illegible] the lowest bid April 11, 1901, as follows for laying wa[illegible] mains in Napier and other avenues and streets in the [illegible] boroughs of Manhattan and the Bronx: Rock excavation, [illegible] cu. yds., $1.90; earth excavation, 5,600 yds., 19 cts.; [illegible] ling, 6,500 yds., 9 cts.; laying 20-in. pipe, 50 ft., 50 cts.; [illegible] 100 ft., 34 cts.; 6-in., 13,100 ft., 19 cts.; 6-in. st[illegible] 20, $5; hydrants, 40, $7.50; paving, 660 yds., [illegible] macadam, 70 sq. yds., 25 cts.; asphalt paving, [illegible] $2.95; curbing, 300 ft., 10 cts.; total, $6,874.

BRIDGES.—Philadelphia, Pa.—We are informed [illegible] the following bids were received March 21 for con[illegible] ing certain bridges:

BIDS RECEIVED AT PHILADELPHIA, PA., MARCH 21, 1901, FOR CONSTRUCTING CERTAIN BRIDGES.

Bids for Bridges, Sewer Work, Etc., Over Frankford Creek, on Frankford Ave. and Old Front St.

Items.	Ryan & Kelley, 8 So. Broad St.	Harmer & Quinn, 308 Fidelity Bldg.	David Peoples, 2649 Thompson St.	Henderson & Co., Ltd., 1215 Filbert St.	Wm. H. Millard, 1103-4 S. Girard Bldg.	M[illegible] O'Ro[illegible] 28[illegible] Frankford [illegible]
Entire work of constructing two bridges, etc.*	$129,000	$108,179	$88,000	$78,500	$80,000	$102,[illegible]
Time to complete	7 mos.	5 mos.	12 mos.	8 mos.	8 mos.	8 mos.
Additional quantities in excess of estimate, a cu. yd.:						
Rubble masonry for foundations for bridges	$7.50	$12.00	$5.00	$7.50	$7.00	$5.00
In cement mortar for retaining walls, tail-race, etc.	6.50	12.00	6.00	7.50	6.00	5.00
For walls new channel of creek, drainage channel, etc.	4.50	4.00	4.00	4.00	5.00	3.00
Rip-rap in place, a sq. yd.	1.50	1.25	1.40	3.00	1.00	5.00
Wooden railing, painted (3 coats), where ordered, a lin. ft.	.30	3.00	3.00	.25	1.00	2.00
84-in. circular sewer, vitrified shale brick bottom, lin. ft.	24.00	50.00	19.00	25.32	18.00	18.00
54-in. circular sewer, vitrified shale brick bottom, lin. ft.	18.00	25.00	9.00	14.65	10.50	15.00
39×26-in. sewer, a lin. ft.	16.00	22.50	5.00	9.72	5.50	12.00
36-in. circular sewer, a lin. ft.	15.00	22.50	5.00	8.62	6.00	5.00
36×24-in. sewer	12.00	22.50	3.00	8.35	6.00	5.00

*Includes masonry, superstructure, pavements, excavation, etc.; the changing of channel of Frankford Creek with dredged channel for tail-race, protection walls, excavation, etc., and for building, maintaining and final removal of temporary trestle bridge.

Bids for the 33d St., Allegheny Ave., and Lehigh Ave. Bridges, and their Appurtenances.

Items.	P. McManus, 18 South Broad St.	Ryan & Kelley, 8 South Broad St.	Harmer & Quinn, 308 Fidelity Bldg.	Henderson & Co., Ltd., 1215 Filbert St.	McGaw & Gray, West End Trust Co. Bldg.	Sullivan & Reilly, 14 South Broad St.	Sparks & Evans, 14 South Broad St.	Thos. F. Reilly, 1210 Harrison Bldg.	Cort Constn Co., 1222 Belmont Ave.	Chas. D. Land, 2332 North Broad St.
33d St. Bridge:										
Bridge abutment, etc.*	$104,508	$108,944	$122,337	$92,380	$104,000	$109,000	$95,600	$93,081	.....	.....
Time to complete	8 mos.	7 mos.	8 mos.	8 mos.	10 mos.	8 mos.	9 mos.	5 mos.	.....	.....
Extra rubble fndatn mas'ry.	$6.20	$6.00	$7.00	$4.50	$6.00	$6.50	$4.75	$4.49	.....	.....
Retaining wall, complete	6.19	6.40	5.30	5.75	5.90	6.50	5.10	5.09	.....	.....
Drainage work, complete	1,034	1,000	5,310	600.00	2,000	1,600	1,200	641.20	.....	.....
Allegheny Ave. Bridge:										
Metal superstructure, etc.	.....	$36,000	$38,712	$34,300	.....	.....	.....	.....	$41,862	$34,000
Time to complete	.....	7 mos.	7 mos.	6 mos.	.....	.....	.....	.....	.....	5 mos.
Masonry abutments, piers.†	.....	$10.25	$25,097	$15,400	.....	.....	.....	.....	$14,233	$8.50
Extra rubble or concrete	.....	7.00	8.00	7.50	.....	.....	.....	.....	5.75	6.50
Excavation and shoring	.....	18,000	7,980	11,210	.....	.....	.....	.....	11,440	13,300
Brick paving and curbing	.....	1,100	2,730	1,185	.....	.....	.....	.....	1,291	1,100
Lehigh Ave. Bridge:										
Bridge work complete	.....	$73,000	$77,949	$70,787	$70,200	.....	$69,600	.....	$80,353	.....
Time to complete	.....	5 mos.	9 mos.	6 mos.	8 mos.	.....	7 mos.	.....	.....	.....
Extra rubble masonry	.....	$6.25	$8.00	$7.50	$6.00	.....	$4.75	.....	$5.75	.....
Sewer work, manholes, etc.	.....	14,500	10,216	5.756	5.100	.....	5,230	.....	4,431	.....

*North abutment of bridge over Renn. & Reading Ry., arch on line of Master St., and retaining wall between Pennsylvania Ave. and Master St., including foundations, arch, retaining wall, excavation, etc. †Including excavation, bridge seats, coping, capping stones, anchor bolts in pier columns, etc.

Bids for 57th St., 71st St., and Olney Ave. Bridges.

Bidder.	Bridges at— 57th St. Total.	57th St. Time, mos.	57th St. Additional.	71st St. Total.	71st St. Time, mos.	71st St. Additional.	Olney Ave. Total.	Olney Ave. Time, mos.	Olney Ave. Additional.
P. McManus, 18 South Broad St.	$27,056	6	$6.20	$19,235	4	$6.45	.....	.	.....
Ryan & Kelley, 8 South Broad St.	29,700	5	7.00	.....	.	....	$46,800	6	$6.00
Harmer & Quinn, 308 Fidelity Building	33,933	4	7.00	21,927	4	6.00	52,393	4	7.00
Am. Artificial Stone Pav. & Const'n Co., 211 S. 9th St.	27,800	6	5.50	.....	.	....	.....	.	....
David Peoples, 2649 Thompson St.	.....	.	....	19,900	6	5.00	.....	.	....
M. & J. B. McHugh, 607 Witherspoon Building	.....	.	....	19,800	4	6.00	.....	.	....
Henderson & Co., Ltd., 1215 Filbert St.	27,950	6	7.50	15,590	4	7.50	43,976	6	7.50
Philadelphia Construction Co., 515 Girard Building	27,985	6	6.00	.....	.	....	48,700	6	5.50
McGaw & Gray, West End Trust Co. Building	29,900	5	7.00	.....	.	....	.....	.	....
Sparks & Evans, 14 South Broad St.	.....	.	....	17,600	3½	5.50	.....	.	....
Thos. F. Reilly, 1210 Harrison Building	.....	.	....	19,297	3	5.90	.....	.	....
Cort Construction Co., 1222 Belmont Ave.	30,275	.	5.75	17,510	.	5.75	50,277	.	5.75
Chas. D. Land, 2332 North Broad St.	33,000	3	8.50	.....	.	....	47,000	6	6.50

Note.—In the totals are included abutments, superstructure, masonry, painting and all appurtenances. In the "Additional" columns are: Foundation concrete including excavation; rubble foundation masonry, including excavation; together with all appurtenances, at price a cu. yd.

GARRETT, IND.—The contract for about one mile of paving in this city, to cost about $45,000, is said to have been let to Kelly Bros., of Portsmouth, O.

GRAND RAPIDS, MICH.—It is stated that the board of public works has let the contract for paving North Ionia Alley with brick to Hauser, Owen & Ames, 115 Ottawa St., at $1,949.

CHICAGO, ILL.—Bids are asked until May 10 for constructing roads and paths in the post cemetery at Fort Sheridan. Col. E. B. Atwood, Ch. Q. M.——George K. Wheelock, Ch. Engr. Streets, writes us that an ordinance is now being prepared, providing for the asphalting of Arch St.

BELOIT, WIS.—Robert Caldwell, Cy. Engr., writes us that the council has ordered plans and specifications for paving Fourth, State, Broad and School Sts. The first two are the only ones that are likely to be done in the near future.

DES MOINES, IA.—We are informed that the council has decided to construct about 7,000 sq. yds. of macadam pavement on 12th St. George M. King, Cy. Engr.

ST. LOUIS, MO.—Bids are asked by the board of public improvements until April 26 for paving, grading and improving portions of a number of streets. Robt. E. McMath, Pres.; Edward Flad, Secy.——Bids are asked until May 10 for constructing a granitoid walk at Jefferson Barracks. Lieut.-Col. D. D. Wheeler, Depot Q. M.

DENVER, COLO.—The board of public works has asked for an appropriation of $10,000 for asphalting several triangles.

SAN RAFAEL, CAL.—The board of supervisors is said to have let the contract for macadamizing Tiburon Boulevard to E. Schwiesau, at $5,495.

CONTRACT PRICES.

WATER PIPE.—Hudson, N. J.—J. P. Egan, Clk. Bd. Supervisors, Jersey City, writes us that M. J. Drummond & Co., 192 Broadway, New York, was awarded the contract April 11, 1901, at $24.80 a ton of 2,240 lbs., for furnishing 30 tons of cast-iron water pipe.

MACAMAM PAVING.—Camden, N. J.—F. W. George, Clk. Bd. Freeholders, writes us that the following bids were received April 8, 1901, for a macadam road near Station 32; J. R. Shanley awarded contract:

Bidder.	Excavation, cu. yd.	8-in. macadam, sq. yd.	Underdrain, lin. ft.	Total.
J. R. Shanley, Newark, N.J.	$0.20	$0.86	$0.12	$14,000
J. Quinlan, So. Amboy, N.J.	.20	.88	.12	14,643
B. F. Sweeten & Son*	.22	.88	.10	14,998
Rocky Hill (N.J.) Cnstn Co.	.25	.79	.20	17,000
Trenton Stone & Constn Co.	.25	.85	.15	14,400

*Camden, N. J.

BREAKWATER SUPERSTRUCTURE.—Buffalo, N. Y.—Maj. T. W. Symons, U. S. Engr., received the following bids April 5, 1900, for constructing a concrete superstructure on the breakwater at Buffalo, all local bidders, except Hughes Bros. & Bangs, of Syracuse, N. Y.; Buffalo Dredging Co.'s bid accepted:

Quantities.	E. Brown Baker.	J. B. Donnelly.	Buffalo Dredging Co.	Hughes Bros. & Bangs.
Removing* ...1,800 ft.	$12.00	$10.00	$12.00	$11.00
New timber...3,000 ft.	30.00	50.00	100.00	50.00
Oak piling.† ..3,000 "	.50	.60	.25	.25
Dredging, &c..1,000 yds.	.60	.90	1.00	1.00
Stone filling...6,000 tons	.90	1.25	.80	1.00
Concrete blocks5,500 yds.	11.00	11.00	10.00	11.00
Mass concrete11,800 yds.	9.00	9.25	9.40	10.00
Manhole cvrs.. 50	5.00	5.00	5.00	5.00
Mooring rings. 25	40.00	75.00	55.00	50.00
Total	$197,140	$200,125	$195,995	$207,700

*Old superstructure. †Driven.

WATER PIPE.—Yonkers, N. Y.—A. W. Kingsbury, Clk., writes us that the following bids were received April 8, 1901, for furnishing 1,000 lengths of water pipe, (1) being for 8-in. per ton, (2) for 6-in., (3) for 4-in.: U. S. Cast Iron Pipe & Foundry Co., Broad and Chestnut Sts.,

Philadelphia, (1 and 2) $23.70, (3) $24.70; M. J. Drummond, 192 Broadway, New York, (1 and 2) $24.20, (3) $25.20; John Fox, 253 Broadway, New York, (1) $23.85, (2 and 3) $24.50; Warren Foundry & Machine Co., 160 Broadway, New York, (1, 2 and 3) $23.70; Camden Iron Works, Philadelphia, (1, 2 and 3) $23.60 (accepted).

CEMENT AND BROKEN STONE.—Fort Wadsworth, N. Y. Harbor.—W. L. Marshall, U. S. Engr., New York, received the following bids March 30, 1901, for (1) being for cement, and (2) for trap rock: H. L. Friedenberg, Saylors, (1) $1.87 (packed in bbls.), (1) $1.707 (in bags); Frank E. Morse Co., Dragon, (1) $1.54, (1) $1.69; Manhattan Trap Rock Co., (2) 84 cts.; J. E. Conklin, (2) 79 cts.; Atlas Portland Cement Co., Atlas, (1) $1.70, (1) $1.90; Saylor, Humbert & Co., Whitehall, (1) $1.39, (1) $1.53; Frank McNeal, (2) 80 cts.; Commercial Wood & Cement Co., Saylers, (1) $1.52, (1) $1.532; Hiram Snyder & Co., Lehigh, (1) $1.52, (1) $1.71; W. L. Quinn, (2) 85 cts.; C. Zeller, Phoenix, (1) $1.55, (1) $1.49; J. S. Lane & Son, (2) 75 cts.

BRICK SEWER.—Newark, N. J.—We are informed that the following bids were received April 4 for constructing central relief sewer; the material to be excavated is nearly all sand and gravel; bid of B. J. Sullivan accepted; Robert Adam, Cy. Engr.:

Bids Received at Newark, N. J., April 4, 1901, for Constructing Central Relief Sewer.

Quantities.		Average cut.	B. J. Sullivan, 220 Broadway, New York.	Harrison Construction Co., Newark.	Sandford & Stillman, Jersey City.	Headley & Christie, Newark.	James Seme, Newark.	James Conway, Newark.
72-72-in., pile-timber fndtn	100 lin. ft..	12 ft.	$47.00	$50.14	$40.00	$42.00	$53.40	$55.00
With timber platform ..	75 " "	12 "	18.00	26.11	31.00	33.00	34.62	25.00
81-in., ...	500 " "	30 "	18.00	27.37	31.80	30.70	31.84	33.00
81-in., with concrete cradle	245 " "	30 "	19.50	27.95	33.80	32.80	31.74	33.00
105-in., ...	1,500 " "	22¼	23.00	30.15	29.00	30.00	36.86	32.00
105-in., with concrete cradle	710 " "	22¼	27.00	31.35	31.00	31.50	32.07	32.00
87-in.	430 " "	16 "	18.00	18.00	20.00	19.00	28.68	42.00
87-in., with concrete cradle	200 " "	16 "	19.00	18.29	21.50	21.00	23.96	42.00
72-in., ...	320 " "	10½	14.00	14.92	15.50	16.65	21.91	20.00
72-in., with concrete cradle	150 " "	10½	14.00	15.00	17.00	17.00	20.85	20.00
58-in.	160 " "	10½	10.00	7.98	10.00	9.75	15.66	10.00
52-in.	265 " "	10½	10.00	5.70	9.00	8.50	15.49	10.00
42x48-in.	30 " "	10 "	7.00	7.84	8.00	7.95	19.84	10.00
30x42-in.	35 " "	28 "	7.00	7.45	8.00	7.00	17.62	10.00
24x36-in.	45 " "	9 "	4.00	5.35	7.00	6.75	11.49	10.00
New receiving basins.....	2 each.....		125.00	100.00	100.00	100.00	151.25	150.00
Receiving basin rebuilt ...	1.....		75.00	75.00	75.00	70.00	54.45	100.00
New manholes	31 each.....		60.00	45.00	48.00	50.00	72.60	100.00
6-in. house connection pipe	500 lin. ft.....		1.00	.60	.80	.75	.42	.50
8-in. underdrain pipe	1,000 " "		.75	.50	.50	.45	.73	1.00
6-in. underdrain pipe.....	1,000 " "		.75	.45	.45	.40	.67	1.00
Total			$100,688	$119,855	$124,359	$125,319	$149,513	$149,640

DAM.—Ohio River, O.—The following bids were received by Maj. W. H. Bixby, U. S. Engr., Cincinnati, O., April 10, 1901, for constructing Chanoine Dam. No. 2, Ohio River; (1) C. I. McDonald, Pittsburg, Pa.; (2) The Evansville (Ind.) Contract Co., (3) Sheridan-Kirk Contract Co., Nicholasville, Ky.; (4) Edward Healy, Louisville, Ky.:

		1.	2.	3.	4.
Cofferdam ..	1,800 ft...	$12.50	$9.00	$10.00	$13.50
Piling:					
Round ...	4,200 " .	.45	.40	.30	.50
Sheet	1,000 " .	.40	.40	.30	.40
Excavation:					
Common ..	10,000 yds.	.60	.50	.50	.75
Rock	2,000 "	2.50	3.00	2.50	3.00
Bolt holes ..	1,500 ft...	.50	.50	.40	.50
Dike	1,500 " .	3.50	10.00	10.00	4.25
Dredging ...	10,000 yds.	.45	.30	.50	.45
Stone filling	1,500 "	3.50	2.00	1.75	3.00
Gravel "	2,500 "	1.00	.60	.58	1.00
Concrete ...	4,000 "	4.50	4.00	4.50	3.25
Timber:					
Oak*	420 M.ft.	67.50	60.00	85.00	50.00
Hemlock*	20 "	37.50	40.00	30.00	30.00
Cast-iron .	220,000 lbs..	.07	.04⅜	.05	.045
Iron & st1.	250,000 "	.14	.04⅜	.05	.095
Bolts, &c...	60,000 "	.09	.04⅜	.05	.05
3" w.-i. pipe	1,000 ft...	1.00	.75	.50	.60
4" " "	500 " .	1.00	1.00	.75	.90
Totals	.....	$158,440	$118,968	$135,910	$131,225

*Permanent.

EXTENDING WATER MAINS.—Washington, D. C.—The following bids were received by the Bureau of Yards and Docks, Navy Dept., April 6, 1901, for enlarging the water pipe system at the navy yard; (1) Rosser & Castoe, Bellaire, O.; (2) David R. Burns, 739 North 19th St., Philadelphia; (3) Robt. G. Campbell, 517 10th St., N.W., Washington; (4) Rezin W. Darby, 1062 32d St., N.W., Washington; (5) M. F. McNamara & Co., 608 A St., S.E.,

	1.	2.	3.	4.	5.
Plan A, complete ...	$16,800	$21,723	$21,607	$33,576	$18,425
" B, " ...	16,290	20,573	21,038	32,496	17,950
Additional.*	23.00	22.10	28.75	28.60	23.75
Specials, a lb.....	.02⅝	.02⅝	.03½	.03⅛	.03
Valves, each:					
4-in., with wheel.	11.75	.....	13.74	13.25	12.00
6-in., " " .	16.50	.....	19.75	18.00	16.75
8-in., " " .	23.00	.....	27.87	24.50	23.50
10-in., " " .	30.00	.....	36.62	31.50	31.00
12-in., " " .	40.00	.....	47.87	41.50	40.00
4-in., without " .	11.00	11.50	13.12	12.50	11.50
6-in., " " .	15.50	16.00	18.75	17.00	16.00
8-in., " " .	22.00	22.00	26.87	23.50	22.50
10-in., " " .	28.50	29.00	35.00	30.00	29.50
12-in., " " .	38.00	38.00	46.25	40.00	39.00
Ind. valve ports, each	15.00	16.50	18 12	15.90	15.50
Hydrants, each	50.00	51.00	61 25	55.00	51.00

Plan A—complete with valves over 6 ins. enclosed in vaults; Plan B—same with only the 16-in. valve enclosed. *Cast-iron bell-and-spigot pipe of 12-ft. lengths, per ton of 2,000 lbs.

BOULEVARD WORK.—Tampa, Fla.—It is stated that the following bids were received by the county commissioners March 5, 1901, for building the proposed boulevard from the city to Port Tampa, via Ballast Point: J. S. McFall, grading, 15 cts. a cu. yd.; clearing and grubbing, $25 per acre; bridges and culverts (complete), if pine lumber, $25 a 1,000 ft. B.M.; if cypress lumber, $32; rough stone sea-walls, $1.50 per. cu. yd.; paving, Bartow clay or rock, 27½ cts. a sq. yd.; cline rock, Six-Mile Creek or similar rock, 29⅝ cts.; with a base 4 ins. deep of Bartow clay and a surface of 2 ins. deep of crushed flint rock, 34½ cts. a sq. yd.; will furnish ballast for track of Tampa Electric Co., of Bartow clay at 70 cts. a cu. yd., or of Six-Mile Creek at 80 cts. a cu. yd.; bids made with provision that material is hauled by Tampa Electric Co. free of charge. Total, if Bartow clay, $41,173; if Six-Mile Creek rock, $43,520; Tucker Savage, grading, 18½ cts.; clearing and grubbing,, $25; bridges and culverts, $25; pine lumber sea-walls, $1.50; paving, Bartow clay, 34¼ cts.; cline, Six-Mile Creek or similar rock, 36¼ cts.; 4 ins. Bartow clay and 2 ins. crushed flint rock, 39¼ cts.; 4 ins. Six-Mile Creek or similar rock and 2 ins. flint rock, 41¼ cts.; ballast for track, 75 cts.; T. M. Wier and F. L. Cushing, for building and completing road, $38,950; to build and complete road, capped with 2 ins. crushed hard rock, $41,000; bids include 7,000 cu. yds. ballast for tracks; Kendrick & Levick, grubbing, grading and clearing, 50 cts.; material to be Six-Mile Creek or soft rock, with 2-in. dressing of Wildwood or flint rock; bridge work, $25; bulkheads, $2; Kendrick & Levick, Six-Mile Creek or soft rock, 30 cts.; grading and filling, 12½ cts.; bridge work, $25; grubbing, $25; bulkheads, $2; total, with Six-Mile Creek rock, $44,360.

PAVING, ETC.—Chicago, Ill.—The following are the lowest bids received recently for about $600,000 worth of brick and asphalt paving, about 14 miles in length: W. Adams St., Standard Paving Co., asphalt $2.24, curbing 60 cts., total $11,500; Albany Ave., Western Paving & Supply Co., asphalt $2.10, curbing 53 cts., total $9,400; Forquer St., R. F. Conway Co., brick $2.13, total $25,000; 47th St., T. Burke, brick on the present macadam foundation $1.52, total $30,000; Grand Ave., R. F. Conway Co., brick $2.14, total cost, $51,000; Normal Ave., Smith, Mass & Brown, resurfacing macadam $70, total cost $20,000; Haymarket, R. F. Conway Co., granite block $3.59, street is 200 ft. wide and city has appropriated money for part of the cost, total cost $34,400; 40th Ave. system, comprising 20 streets north of Madison St. and between 40th and 48th Aves., R. F. Conway Co., length 5½ miles, macadam 88 cts., curbing 62 cts., total cost $120,000.

PAVING MATERIALS, ETC.—Springfield, Mass.—The following bids were received by the county supervisors March 20, 1901, for furnishing broken stone, brick, etc., for paving: John S. Lane & Son, broken stone, delivered on B. & A. tracks 80 cts. a ton, at Indian Orchard $1.05, on N. Y., N. H. & H. tracks 97½ cts., Boston & Maine tracks 85 cts.; Rocky Hill Stone Co., Hartford, Conn., on N. Y., N. H. & H. R. R. tracks, 95 cts.; Cook Stone & Ice Co., Plainville, Conn., on N. Y., N. H. & H. tracks $1, Highland Division $1.05; Massachusetts Broken Stone Co., Boston, on B. & M. tracks, 95 cts.; Central New England Brick Co., New Britain, Conn., sewer brick, if furnished to city, $6.90 per 1,000; if furnished to contractor on city work, $7; well brick, $9; sidewalk brick, $6.90; crosswalk brick, $6.90; Standard Brick Co., Springfield, sewer brick, $7.50 per 1,000; well brick, $11.50; sidewalk brick, $8.50; crosswalk brick, $8.85; D. J. Curtis & Son, Springfield, sewer brick, $8 per 1,000; well brick, $12; sidewalk brick, $8.90; crosswalk brick, $10.

DAM.—New York, N. Y.—The following bids were received by the Aqueduct Commission April 16 for constructing the Muscoot Dam on the Croton River; contract to be let April 23:

Bids Received at New York, N. Y., April 16, 1901, for Constructing the Muscoot Dam on Croton River.

Quantities.		J. J. Hart Co., 16 Broad St.	J. J. McQuade, 1289 Lexington Ave.	Keefe & O'Hern, Yonkers, N. Y.	W. F. Norton & Co., 215 W. 125th St.	Ryan & Parker, 38th St. and E.R.	Williams & Gerstle, 44th St. and 1st Ave.	Coleman, Brushaw & Coleman, Croton, N. Y.
Soil	500 cu. yds.	$0.40	$0.50	$0.30	$0.57	$0.25	$0.25	$6.36
Sod	500 " "	.40	.05	.25	.29	.30	.35	.25
Earth excavation	105,000 " "	.32	.50	.29	.28	.29	.30	.27
Trench excavation	4,000 " "	.70	.75	.40	1.15	1.00	.40	1.00
Filling and embankment	3,000 " "	.50	.50	.25	.55	.30	.28	.27
Rock excavation	25,000 " "	1.32	1.15	1.28	1.50	1.25	1.10	1.25
Dredging	1,500 " "	.10	.80	.10	1.15	3.50	.60	1.00
Lumber	250 M. ft...	20.00	35.00	15.00	30.00	30.00	30.50	27.00
Grooved lumber	75 " "	20.00	40.00	10.00	40.00	40.00	32.00	38.00
Piles	7,500 lin. ft..	.15	.20	.05	.23	.25	.15	.20
Portland cement	100 bbls....	3.00	2.75	2.50*	3.00	2.50	2.60	3.50
Concrete	100 cu. yds.	8.00	4.00	6.50	7.00	4.50	6.00	4.50
Brick work	100 " "	14.00	20.00	12.00	10.00	12.00	9.50	12.00
Rubble masonry	15,000 " "	3.70	3.50	3.40	4.00	4.00	3.40	4.00
Portland rubble masonry, 1 to 2	2,000 " "	4.75	3.70	4.75	5.17	5.25	4.00	5.25
Portland rubble masonry, 1 to 3	5,000 " "	4.25	3.80	4.40	4.88	4.88	3.50	4.80
Dry rubble	1,600 " "	2.25	2.10	2.75	2.30	2.50	1.95	2.25
Rip-rap	5,000 " "	.70	2.00	.30	1.15	1.50	.90	.60
Broken stone	1,700 " "	2.00	2.00	2.00	1.15	1.75	.75	.90
Block stone masonry	2,000 " "	11.00	10.00	12.00	13.80	12.00	11.00	17.00
Granite	600 " "	27.00	45.00	30.00	28.75	30.00	22.00	30.00
Split stone	50 " "	6.00	8.00	5.00	5.75	4.00	7.50	7.00
Rubble pointing	6,000 sq. ft...	.50	.50	.50	.46	.40	.25	.50
Six-cut work	7,000 " "	.60	.60	.50	.69	.65	.75	.65
Rough cut	5,000 " "	.35	.50	.35	.29	.35	.35	.40
Roof of gate house, etc.	.....	2,400	5,000	3,000	2,000	2,600	2,200	2,000
Flashboard and foot walk ...	220 lin. ft..	6.00	60.00	7.50	11.50	9.25	10.00	9.00
Total	.....	$229,495	$274,110	$219,150	$254,362	$251,319	$209,470	$247,275

WATER DEPARTMENT SUPPLIES.—Richmond, Va.—We are informed that the following bids were received by the department of water-works, March 20, 1901, for furnishing supplies; E. E. Davis, Asst. Supt.: (1) being for ⅝-in. water meters, 500; (2) 4-in. gate valves, 6; (3) 6-in. gate valves, 20; (4) 8-in. gate valves, 3; (5) 10-in. gate valves, 4; (6) hose gate valves, 12; (7) fire hydrants, 20; (8) 3-in. cast-iron pipe, 20 lengths; (9) 4-in. cast-iron pipe, 100 lengths; (10) 6-in. cast-iron pipe, 500 lengths; (11) 8-in. cast-iron pipe; (12) 10-in. cast-iron pipe, 135 lengths; (13) special castings, 20,000 lbs.; (14) large s. c. boxes, 30; (15) meter boxes, 500; (16) pig lead, 6,000 lbs.; (17) wiping solder, 1,200 lbs.; (18) brass work; (19) pipe trenching, in Clay St.; (20) in Grand St. (X award contract): G. & A. Bargamin Co., (1) Lambert make, $8.40 (X for 400); (2) $6.65; (3) $10; (4) $17.50; (5) $24; (6) $4.50; (15) $1.70; (16) 4.70 cts. (X); (17) 14 cts.; (18) $213.05; Tredegar Co., (13) 2 cts., (14) $6 (X); (15) $1.75; Southern Ry. Supply Co., (1) Trident $9, (2) $5.85 (X), (3) $9 (X), (4) $14.50 (X), (5) $20.30 (X), (6) $3.95, (7) $21.50 (X), (8) $24.30, (9) $22.20, (10, 11, 12) $21.20, (13) 2.35 cts., (15) $1.65, (16) 4⅝ cts., (17) 13½ cts., (18) $281.46 (X); H. B. Firschhorn, (1) Columbia $8.25 (X for 100), (8 and 9), $20.80 (X), (10 and 11) $20.30 (X), (12) $20.05 (X), (13) 2 1-10 cts. (X), (15) $1.29 (X), (16) 4.84 cts.; Smith-Courtney Co., (1) Nash $9.50, (2) $7.59, (3) $12.71, (4) $19.01, (5) $27.34, (6) $6.41, (7) $22.70, (8) $24.00, (9) $22.00, (10, 11, 12) $21.00, (13) $2.49, (15) $1.79, (16) 5⅛ cts., (17) 13.48 cts. (X), (18) $3.26; John H. McGowan Co., (1) Hersey $9.50, (16) 5 1-10 cts., (17) 14 cts., (18) $322.80; A. B. Casley, (15) $1.35, Maynard & Perkins, (19) 26 cts., (20) 28 cts.; Maynard & Ford, (19) 24¼ cts., (20) 29½ cts.; Warren Moore (8, 9, 10, 11, 12) $22.40, (13) 2⅜ cts.

SEWERS.—Glencoe, Ill.—We are informed that the following contracts were let March 16, 1901, to Chas. M. Porter, 84 La Salle St., Chicago, for constructing a sewerage system; Frank A. Windes, Village Engr., Winnetka, Ill.: 12-in., 21.6-ft. cut, 33 ft., $2.05; 10-in., 17.3-ft. cut, 486 ft., $1.48; 10-in., 15-ft. cut, 542 ft., $1.38; 9-in., 15-ft. cut, 486 ft., $1.35; 8-in., 11.2-ft cut, 620 ft., 85 cts.; 8-in., 12-ft. cut, 513 ft., 85 cts.; 8-in., 10.6-ft. cut, 450 ft., 85 cts.; 8-in., 10-ft. cut, 610 ft., 85 cts.; 8-in., 11.1-ft. cut, 594 ft., 85 cts.; 8-in., 13-ft. cut, 542 ft., 96 cts.; 8-in., 7-ft. cut, 400 ft., 65 cts.; 8-in., 8.4-ft. cut, 840 ft., 75 cts.; 6-in., 6.5-ft. cut, 220 ft., 50 cts.; 6-in., 8-ft. cut, 210 ft., 61 cts.; 6-in., 8.7-ft. cut, 750 ft., 66 cts.; 6-in., 10-ft. cut, 350 ft., 66 cts.; 6-in., 10-ft. cut, 193 ft., 67 cts.; manholes, 35, $28; flushing devices, 4, $214; total for sewer No. 139, $8,220; sewer No. 138, 12-in., 17.3-ft. cut, 1,235 ft., $1.50; 12-in., 15.1-ft. cut, 1,950 ft., $1.42; 10-in., 16-ft. cut, 240 ft., $1.50; 9-in., 13.5-ft. cut., 240 ft., $1.10; 8-in., 10-ft. cut, 16,151 ft., 86 cts.; 8-in., 11.5-ft. cut, 1,400 ft., 86 cts.; 8-in., 10.5-ft. cut, 1,100 ft., 86 cts.; 8-in., 9.5-ft. cut, 320 ft., 86 cts.; 8-in., 11-ft. cut, 205 ft., 86 cts.; 6-in., 7-ft. cut, 510 ft., 46 cts.; 6-in., 8.5-ft. cut, 510 ft., 46 cts.; 6-in., 6-ft. cut, 510 ft., 46 cts.; 6-in., 7-ft. cut, 270 ft., 46 cts.; manholes, 43, $26; flushtanks, 3, $564; total for sewer No. 138, $11,536. Harding & Nelson, Racine, Wis.; Robt. J. Green, Chicago, and McNichols & Co., 288 Times St., Chicago, also submitted bids. The excavation is all in hard clay.

PAVING.—Davenport, Ia.—It is stated that Dan'l A. McGugin, for the Davenport Construction Co., has been awarded the contracts as follows for brick paving in 3d, 15th, 14th Sts., and Rockingham Road: Excavating, 25 and 26 cts; paving, $1.27, $1.28 and $1.26; new curbing, 35 cts., 38 cts. and 36 cts.; resetting old curb, 6 cts; total, $87,900.

BRICK PAVING.—Jacksonville, Fla.—We are informed that the following bids were received March 28, 1901, for about 13,195 sq. yds. of brick paving: Coaldale Paving Brick Co., Birmingham, Ala., $1.56; Geo. R. Foster, Jr., Jacksonville, $1.50; Southern Paving & Construction Co., Chattanooga, Tenn., $1.54.

MANUFACTURING PLANTS.

SOUTH MANCHESTER, CONN.—Cheney Bros. have let the contract for two new silk mills to Beatty & Wilcox, of Fall River, Mass. The new mills will be 50x330 ft. each, and three stories high.

ALBANY, N. Y.—The Wheel Rent & Power Co., of this city, is preparing plans for the erection of a factory building, 78 ft. square and three stories high. The building will be used by Carl O. Hasselbrath as a manufactory of bedsteads, mattresses, etc.

BROOKLYN, N. Y.—The Steinway Piano Co. will erect a large factory at Ditmars Ave. and Lyster and Titus Sts., Queens Borough.

BUFFALO, N. Y.—Local papers state that contracts have been let for a new foundry to be built for the New York Car Wheel Works at Forest Ave. The plant will be 140x500 ft. and will employ about 300 men.

LE ROY, N. Y.—The Western New York Salt Co. has been organized with $100,000 capital stock, to build and operate a salt plant at a point west of this village. The new plant will have a 1,000-barrel capacity and will employ a large force of men. Ground will be broken at once. John P. Simpson, of this place, will have charge of the construction of the buildings. Christian Klink, Pres.; Jacob Dold, Vice-Pres., Buffalo, N. Y.

BAYONNE, N. J.—Reports state that De Selding Bros., of New York, have purchased a factory site in this town, and will spend $400,000 for a new plant.

CAMDEN, N. J.—The purchase of Petty's Island, in the Delaware River, is said to have been effected by Philip J. Ross, of New York, and others, and it is stated that a shipbuilding plant will be erected thereon.

ELIZABETH, N. J.—The Watson Water Tube Boiler Co., recently incorporated with $250,000 capital stock, will erect a plant in this place. Egbert P. Watson, Pres.

PATERSON, N. J.—The wagon factory owned by J. S. Sowerbutts in this city was destroyed by fire on April 6; loss, $30,000.

FRANKLIN, PA.—The Sibley Soap Mfg. Co. has been reorganized with a capital stock of $30,000. The present plant will be enlarged.

NICETOWN, PA.—The Midvale Steel Co. has obtained permission to build a steel foundry, 162x250 ft., at its works at this place. The contract has been let to Cramp & Co., at about $75,000. Plans have been prepared by the company's engineer for a new iron ordnance building No. 2, 500x60 ft., four stories high, to be built here. It will cost $150,000. The plans may be seen in the offices of H. B. Shoemaker & Co., Pittsburg.

PLYMOUTH, PA.—A factory will be built here for the manufacture of a new miner's safety squib. Dr. J. P. Biehl and Enos Williams are interested.

PITTSBURG, PA.—The Penn Clay Pot Co. with works at Guyaurta Station, has been incorporated in West Virginia, and will build an extension to its plant. Joseph Walter, Pres.

PHILADELPHIA, PA.—Permission has been granted to Cramp & Co., builders, to build a woolen mill building for the South Wark Mills Co., at Eighth and Tasker Sts. The

building will be 32 × 146 ft. and will cost about $30,000. Plans were prepared by J. Franklin Stuckert & Sons.——The Main Belting Co., of this city, will have plans made for a large brick and iron addition to its factory at No. 1247 Carpenter St. Bids will soon be asked.

PITTSBURG, PA.—It is stated that the Columbia Plate Glass Co., capitalized at $800,000, has completed plans for extensive works to be located in South Blairsville. Efforts will be made to have the plant ready for operation by Oct. 1. About 500 men will be employed. W. D. Keyes, Gen. Mgr.

WASHINGTON, PA.—The Pittsburg Window Glass Co., capitalized at $100,000, will build a plant in this place, to employ about 120 men. It is expected to have the plant ready for operation by October. The furnace contracts have been let to the R. C. Smyth Co., of Pittsburg. J. Ernest Miller, Vice-Pres.

GAYLESVILLE, ALA.—It is stated that D. A. Hudson and others have organized to build a cotton mill in this place.

GUEYDAN, LA.—W. L. Doss, Pres., Mutual Rice Mill, writes us that plans and specifications for the company's plant are nearing completion. W. H. Lawthers, Arch.

SHREVEPORT, LA.—The plant of the Shreveport Ice & Refrigerating Co. was destroyed by fire on April 8; loss, estimated at $150,000.

COLUMBUS, MISS.—Bids will be called for in a few days for the construction and equipment of the Columbus Hosiery Mills. The buildings will be of brick and consist of a main building, 120 × 50 ft.; dye wing, 50 x 32 ft.; boiler house, 25 × 32 ft.; engine room, 25 × 32 ft.

JACKSON, MISS.—The Jackson Fertilizer Co. has awarded a contract to N. P. Pratt, of Atlanta, Ga., for erecting its plant, to cost about $100,000.

VICKSBURG, MISS.—The Houston Lumber Co., of Bigbee, has purchased 155,000 acres of timber land in this vicinity and will remove its plant to this place. About 300 men will be employed.

HENDERSON, KY.—The factory of the Gallaher Co., Ltd., was burned on April 2; loss, about $140,000.

AKRON, O.—The Buckeye Match Co. has been organized with a capital stock of $200,000, and will erect a large plant here, so it is stated, for the manufacture of both matches and match-making machines. The incorporators of the new company are members of the Everett Railway syndicate of Cleveland.

BELLEFONTAINE, O.—Announcement has been made by the Cleveland, Cincinnati, Chicago & St. Louis R. R. Co., according to local papers, that $100,000 will be expended this year in enlarging the shops and erecting new shops in this city.

CLEVELAND, O.—E. A. Handy, Ch. Engr., Lake Shore & Michigan Southern Ry., Cleveland, writes us that plans are being prepared for the shop buildings at Collinwood, O., but will not be finished for some time.

COLUMBUS, O.—The Retail Butchers' Association has decided to build an ice plant, and will soon incorporate a company capitalized at $75,000.

NORWALK, O.—It is stated that the Wheeling & Lake Erie Ry. will probably enlarge its shops in this city at a cost of $350,000.

TOLEDO, O.—The plant of the Lake Erie Asphalt Co., located on the wharf at Ironville, was destroyed by fire on April 8; loss, about $50,000.

FRANKTON, IND.—A company has been organized by the citizens of this town for the purpose of building a plant to manufacture a mower invented by E. B. Hassey, of Pendleton.

GRAND RAPIDS, MICH.—The Fred Macey Co. has purchased 12 acres of land on South Division St., this city, and will probably erect a factory building to cost about $200,000. Fred Macey, Pres.

KALAMAZOO, MICH.—The Henderson-Ames Co. has completed plans for a factory building in this city, to be four stories, 120 × 169 ft.

MILWAUKEE, WIS.—The E. P. Allis Co. has secured a site for a new plant at Allisville. It is stated that other concerns are considering building there.

DES MOINES, IA.—Local papers state that Wells-Antes Co. is having plans made by the C. C. Cross & Son for a new factory building on the east bank of the river and between Locust St. and Grand Ave. The building will be two stories, 60 × 132 ft.

ELY, NEB.—Reports state that the Chairman Mining & Electric Co., of Elmira, N. Y., has let the contract for a mammoth ore plant at this place, to cost $100,000. M. B. Dunham, Pres., Warren, Pa.

TACOMA, WASH.—It is stated that a manufacturing plant will be built on the Puyallup River, on a site 800× 400 ft. offered by Allen C. Mason.

ALAMEDA, CAL.—The Vulcan Smelting & Refining Works, situated just beyond Melrose, were destroyed by fire on April 2; loss, about $15,000.

PHOENIX, ARIZ.—D. W. Brown, of Peoria, Ariz., and others have decided to build a sugar factory between Glendale and Peoria at a cost of about $250,000.

SALT LAKE CITY, UTAH.—Local papers state that the Hammond Packing Co. will begin the erection of a packing plant in this city, to cost from $200,000 to $250,000, as soon as a site can be secured. The plant will comprise pens, slaughtering plant, pickling plant, smokehouses and canning plant. H. Noyes, Gen. Mgr., Omaha, Neb.

ROSSLAND, B. C.—It is stated that the Le Roi, War Eagle and Centre Star Mines will erect two new concentrators.

MONTREAL, QUE.—Plans have been prepared by W. E. Doran, Arch., for a new abattoir for the Laing Packing & Provision Co., of Victoriatown, Point St. Charles. The new building will be of brick and will cost $100,000.——It is stated that $1,500,000 will be spent in the development of the pulp and paper industry in the Keewatin district of New Ontario within the next three years. The Keewatin Power Co. is in back of the scheme, which will call for the construction of extensive pulp and paper mills.

MISCELLANEOUS CONTRACTS.

STEAM LAUNCH.—Cincinnati, O.—Bids are asked until May 14 for a 30-ft. steel-hulled steam launch. Maj. William H. Bixby, U. S. Engr.

RIP-RAP.—Duluth, Minn.—Bids are asked until April 20 for furnishing rip-rap at the Duluth Ship Canal. Capt. D. D. Gaillard, U. S. Engr.

DREDGING.—Grand Rapids, Mich.—Bids are asked until April 25 for dredging at the harbors on the east side of Lake Michigan. Capt. Chester Harding, U. S. Engr., 57 Park St.

LOCK AND DAM.—Cincinnati, O.—Bids are asked until May 10 for building lock and dam No. 13, Ohio River. Maj. Wm. H. Bixby, U. S. Engr.

DRAINAGE DITCH.—La Porte, Ind.—Bids are asked by Wm. H. H. Coffin, Construction Comr., until April 26 for constructing the Place Ditch.

DREDGING.—San Francisco, Cal.—Bids are asked until May 22 for dredging in the tidal canal at Oakland Harbor. Lieut. Col. W. H. Heuer, U. S. Engr., Flood Bldg.

STEAM BOILERS.—Washington, D. C.—Bids are asked by the district commissioners until May 18 for furnishing 16 steam boilers, as stated in our advertising columns.

CEMENT.—Cincinnati, O.—Bids are asked until May 16 for furnishing Portland and natural cements, as stated in our advertising columns. Capt. H. F. Hodges, U. S. Engr., Custom House.

DREDGING.—Duluth, Minn.—Bids are asked until May 15 for dredging in Portage Lake Ship Canals, Keweenaw Point, Mich., as stated in our advertising columns. Capt. D. D. Gaillard, U. S. Engr.

DREDGING.—Port Royal, S. C.—Bids are asked until May 11 for dredging at the naval station at Port Royal, to cost about $87,000. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

RUBBLE STONE.—Portsmouth, N. H.—Bids are asked until May 13 for furnishing about 200,000 tons of rubble-stone in the breakwater at Sandy Bay, Mass., as stated in our advertising columns. Capt. Harry Taylor, U. S. Engr.

SUPPLIES.—Washington, D. C.—Bids are asked until May 9 for furnishing cast-iron and steel cable racks, insulators, etc., for the new building for the government printing office, as stated in our advertising columns. Capt. John S. Sewell, U. S. Engr., 735 N. Capitol St.

CEMENT.—Cincinnati, O.—Bids are asked until May 11 for furnishing about 37,000 barrels of Portland or natural cement at dam No. 13, Ohio River, below Wheeling, W. Va., as stated in our advertisng columns. William Martin, Resident Engr., Davis Island Dam, Bellevue, Pa.; Maj. Wm. H. Bixby, U. S. Engr.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until April 23 for furnishing one plate furnace, one angle furnace and one pillar crane, at the navy yard, Pensacola, Fla.; for a quantity of steel bars, wire gauze, pig iron and sheet lead at the navy yard, Norfolk, Va.; for a quantity of gate valves, plumbers' supplies, boat anchors, one centrifugal pump, etc., at the navy yard, Boston, Mass.; for one electric generating set, one milling machine, and one engine lathe, at the navy yard, Portsmouth, N. H.; and for a quantity of shovels, paint, iron, steel, a hoisting engine, etc., at the navy yard, New York, N. Y. A S. Kenny, Paymaster Gen., U. S. N.

ZION CITY, ILL.—We are informed that Burton J. Ashley, Ch. Engr. of Zion City, 1201 Michigan Boulevard, Chicago, has received orders to subdivide into residence lots about 800 acres of the land now under title. Surveys have been made upon this property, and the base lines marked and so defined a sto permit of a large number of independent corps to work advantageously upon it at the same time. It is intended to have two of the most experienced field corps subdivide the land into blocks, which work will be followed by a large number of auxiliary corps who will subdivide the blocks into lots. This work is to be accomplished by June 1, and preparations of throwing the land upon the market July 15. It is estimated by the Zion Land & Investment Association that, perhaps, nearly 6,000 lots have been spoken for. The lace machinery which was purchased in England some months ago is now being unloaded from the cars at Zion City, and it is the intention to install eight lace machines and put them into operation at an early date. Lace experts with their families to the number of about 90 are located on the ground or at Waukegan, Ill., ready to begin operations. An artesian well, 1,500 ft. in depth, affording static pressure of 33 lbs. per sq. in., and a supply of 500 gallons per minute, has been drilled in, and is now in active operation. This well is intended to supply the immediate manufacturing district. A freight house, 34x250 ft., has been constructed. Lumber and coal yards have been opened up, and a general store is now in full operation on the ground.

U. S. TROPICAL POSSESSIONS & CUBA.

BUILDINGS, ETC.—Porto Rico.—We are informed that the Department of Education, San Juan, P. R., has contracted for five or six school houses of frame construction, to cost about $9,000, and is advertising for two more, to cost $10,000, and proposes to build one to cost $25,000. The Commissioner of the Interior has requested the President, through Governor Allen, to assign $700,000 of the customs refund money to insular road work.

BRIDGES, ROADS, ETC.—Hawaii.—The legislature has been asked to appropriate about $150,000 for roads in Hilo and Kona, and $45,000 for bridges in Hilo. Considerable road and bridge work is proposed in other parts of the islands.——Col. Geo. Macfarlane, of Honolulu, and R. H. Flower, of John Flower & Co., London, Eng., are reported as proposing to build an addition to the Hawaiian Hotel and also to develop sugar plantations.——It is stated that the Hilo Ry. will build a long wharf and extend the railway at Hilo. A. W. Carter, Gen. Mgr., Honolulu.

FOREIGN CONTRACTS AND EXPORT NEWS.

UNDERGROUND RAILWAY.—London, Eng.—Reports state that work will be begun at once on the proposed underground railways to be built by Chas. T. Yerkes, of New York.

CANAL.—Mexico.—Reports state that Capt. Chas. E. Shillaber, 244 Wabash Ave., Chicago, Ill., has been granted a concession to build a ship canal between Tampico and Tuxpam, on the Gulf coast, 125 miles, and to establish a line of steamships.

PICKS, SHOVELS, ETC.—West Indies.—Catalogues, price lists, etc., of picks, shovels and tools for mining purposes and of agricultural implements for use in West Indies and South America are wanted by the Colonial Exploitation & Trading Co., 11 Broadway, New York.

FRAME HOUSES.—Canary Islands.—U. S. Consul Berliner, of Teneriffe, Canary Islands, reports that he has requests for plans for frame or wooden houses. Circulars, price lists, etc., of all kinds of building material are wanted at once, and should be addressed to Consul Berliner.

RAILWAY.—Mexico.—Reports state that the contract for building the K. C., Mex. & O. R. R. from Chihuahua, Mex., to San Angeles, Tex., about 500 miles, has been let by Arthur E. Stilwell, Pres., Kansas City, Mo., and that it will be completed inside of a year. A bridge will be built over the Rio Grande at Presidio del Norte. The company has also let a contract to a Chicago firm for building 200 miles of the line between Wichita, Kan., and Kansas City.

TRAMWAY AND TELEPHONE SYSTEM.—Spain.—Bids are asked by the Minister of Agriculture, Industry and Commerce, Madrid, until May 24 for the purchase of a concession of a tram line, to be worked by animal power, for Coruna, and by the Director-General of Posts and Telegraphs, 10 Calle de Carrestas, Madrid, until about May 15 for establishing a telephone system for Denia, Spain.

PORT WORK.—Rosario, Argentina.—Bids are asked by the Ministry of Public Works, Buenos Aires, Argentina, until Jan. 10, 1902, for constructing the proposed port at Rosario, on the Parana River, extension from July 10, or at the Argentine Legation, London, Eng., until June 10, extended from June 10. The plans and specifications for this work may be seen at the office of Engineering News, 220 Broadway, New York. Elmer L. Corthell, Ch. Engr., New York and Buenos Aires.

RAILWAY, ENGINES, ETC.—England.—Bids are asked until May 3 for constructing a railway from Northolt to High Wycombe, 17¾ miles, and doing other work for the Great Western & Great Central Ry. A. E. Boulter, Secy., Paddington Station, London.——Bids are asked until April 30 for furnishing the Commissioners of Public Works of Ireland, H. Williams, Secy., Dublin, with four engines, 15 carriages, 60 wagons, etc.—Bids are asked until April 23 for constructing 13½ miles of light railway for the Cambrian Rys. Co. A. J. Collin, Engr., Oswestry, Eng.

SEWERAGE, WATER-WORKS, ETC.—Merida, Yucatan, Mex.—Reports state that work on the proposed sewerage and drainage systems for the city of Merida will soon be decided upon. It is intended to build a 4 to 6 ft. iron pipe line between Merida and Progreso, about 28 miles. The Merida Well Co. has secured a concession to build a pipe line and erect hydrants for supplying water to Merida. The water supply will be secured from artesian wells 600 ft. deep. Four are now being sunk and about 20 more will soon be. About 100 miles of pipe will be wanted. Address Manager Agnew, of the Merida Gas Co.

RAILWAYS, SUPPLIES, ETC.—Europe.—Bids are asked by the Marine Artillerie Depot, Wilhelmshaven, Germany, until April 30 for a locomotive to burn liquid and to be operated by a gas motor.——We are informed that the Danish State Railways have been allotted 5½ million crowns for the purchase of new rolling stock, to include 300 goods wagons, 30 bogie carriages, 15 prisoners' vans, 8 express locomotives, 16 goods engines and 10 mixed traffic engines.——We are informed that the Department of the Chanente-Inferieure (France) is authorized to raise a loan of $1,496,000 for constructing tramways and the concession will be ceded to the Compagnie des Chemins-de-fer economiques des Charentes, France.

SASH AND DOOR FACTORY.—Shanghai, China.—U. S. Consul H. B. Miller, of Shanghai, reports that there is a good opening for a sash, door and woodworking establishment at Shanghai. A number of large buildings are being built. He states that there is no planer, molding machine or saw mill in China. The most important features of such a plant would be a dry-kiln, a band saw to cut logs up to 18 ins., molding machines, planer, sash and door making machinery, turning lathes, etc. Most of the wood used for interior finish is hardwood. For further information address Atkinson & Dallas, Architects, Shanghai.

WHARF, ETC.—Ecuador.—U. S. Consul-General Reinberg, of Guayaquil, E., reports that the government has granted a concession to Martin Reinberg & Co. for an iron wharf to be 1,500 ft. long and to cost about $900,000. Material will be entered free of duty.——The Ecuador Development Co., 33 Wall St., New York, in which $5,000,000 of U. S. capital is invested, has placed over $1,000,000 worth of contracts with concerns in the United States for the supply of rails and cars required by the Guayaquil & Quito Ry. A Pittsburg steel company was awarded the contract for 40,000 tons of 56-lb. steel rails. The delivery of these in N. Y. will begin during the early part of April, 1901, and will extend over a period of two years. This contract is worth about $900,000. A manufacturing company in St. Louis will furnish 300 box, flat and stock cars, valued at $150,000. It is stated that this railway on commencing operations will utilize 2,000 cars of various kinds, all of which, together with all other equipment required, will be purchased in the United States. The total purchases in the United States will aggregate fully $3,500,000 before the road is in working order.——Dr. Jose M. Borgia, former Consul-General and Acting Minister to the U. S. from Ecuador, is quoted as stating that he has made arrangements for the shipment of machinery for the better development of the field of Ecuador. In a few months the government will have more than 300 dredges worked by electricity. Orders have also been placed with the American Bridge Co., of New York, for more than $2,000,000 worth of bridge material, to be used in the completion of the Guayaquil & Quito Ry.

RAILWAYS, ETC.—Mexico.—We are informed that Farnsworth & Co. have been awarded the contract for grading 40 miles of the Cananea Consolidated Copper Co.'s standard gage road in Mexico from Naco, Ariz., to its mines at Cananea, Mex. The bridges and buildings will be erected by the company's forces. The company is in the market for 20 steel under-frame flat cars, two caboose cars, one combination smoking and box car, two day coaches, two 60-ton, 10-wheel locomotives, two turntables, four water tanks and considerable track and machine tools. E. A. McFarland, Ch. Engr., Naco, Ariz.; Geo. Mitchell, Gen. Mgr.——Chicago and New York capitalists have, it is said, practically secured a concession for a railroad through the northern part of the republic. It is believed the road will connect with the Mexican Central at or near Chihuahua, and will run through the state of Sonora to the Gulf of California.——Reports state that E. H. R. Green, Pres. Texas Midland R. R., Austin, Tex., has returned from Mexico, where he made, on behalf of his mother, Mrs. Hetty Green, an inspection of the completed portion of the Mexico, Cuernavaca & Pacific R. R. Mrs. Green is thinking of furnishing the necessary money for the completion of the road from its present southern terminus to the Port of Acapulco, on the Pacific Coast of Mexico. It is understood that Mr. Green will recommend that the work be done. This road is now built and in operation from the City of Mexico to a point beyond the Balsas River in the state of Guerrero. Its promoter and builder is Col. J. H. Hampson, of Mexico City, Mex.——Thos. Purcell, of Matamoras, Mex., writes us that no work of any kind has been done on the proposed railway from San Miguel to Monterey. The concession is indefinite so far.

INDUSTRIAL NOTES.

THE B. F. STURTEVANT CO., Jamaica Plain, Mass., suffered a slight loss by fire April 14th, but not so serious as was reported in the daily papers. Only the engine and electrical departments were injured and arrangements were completed with only slight delay for handling this work.

Do You Want to Purchase Supplies?—All the Prominent Manufacturers Read Engineering News.

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